UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

ΕO	RN	Л 9	2_1	Z
Г		" ()-1	

CURRENT REPORT
Pursuant to Section 13 or 15(d)
of The Securities Exchange Act of 1934

Date of Report (Date of earliest event reported): August 14, 2023

Taysha Gene Therapies, Inc.

(Exact name of registrant as specified in its charter)

001-39536

Delaware

84-3199512

(State or other jurisdiction of incorporation)	(Commission File Number)	(IRS Employer Identification No.)		
3000 Pegasus Park Drive, Suite 1 Dallas, Texas (Address of Principal Executive Office		75247 (Zip Code)		
	(214) 612-0000 (Registrant's telephone number, including area code)			
(For	N/A mer name or former address, if changed since last repor	t)		
Check the appropriate box below if the Form 8-K filin following provisions:	ng is intended to simultaneously satisfy the filing	g obligation of the registrant under any of the		
☐ Written communications pursuant to Rule 425 u	under the Securities Act (17 CFR 230.425)			
Soliciting material pursuant to Rule 14a-12 under	er the Exchange Act (17 CFR 240.14a-12)			
☐ Pre-commencement communications pursuant to	o Rule 14d-2(b) under the Exchange Act (17 CF	FR 240.14d-2(b))		
☐ Pre-commencement communications pursuant to	o Rule 13e-4(c) under the Exchange Act (17 CF	R 240.13e-4(c))		
Securities registered pursuant to Section 12(b) of the A	Act:			
Title of each class	Trading Symbol(s)	Name of each exchange on which registered		
Common Stock, \$0.00001 par value	TSHA	The Nasdaq Stock Market LLC		
ndicate by check mark whether the registrant is an em chapter) or Rule 12b-2 of the Securities Exchange Act		of the Securities Act of 1933 (§230.405 of this		
Emerging growth company ⊠				
f an emerging growth company, indicate by check manew or revised financial accounting standards provide				

Item 1.01 Entry into a Material Definitive Agreement.

Private Placement of Common Stock and Warrants

On August 14, 2023, Taysha Gene Therapies, Inc. (the "Company") entered into a Securities Purchase Agreement (the "Purchase Agreement") with certain institutional and other accredited investors (the "Purchasers"), pursuant to which the Company agreed to sell and issue to the Purchasers in a private placement transaction (the "Private Placement") (i) 122,412,376 shares (the "Shares") of the Company's common stock, par value \$0.00001 ("Common Stock"), and (ii) with respect to certain Purchasers, pre-funded warrants to purchase 44,250,978 shares of Common Stock (the "Pre-Funded Warrants") in lieu of Shares. The purchase price per share of Common Stock is \$0.90 per share (the "Purchase Price") and the purchase price for the Pre-Funded Warrants is the Purchase Price minus \$0.001 per Pre-Funded Warrant. The Company anticipates receiving gross proceeds of approximately \$150.0 million from the Private Placement, before deducting fees to the placement agent and offering expenses payable by the Company.

The Pre-Funded Warrants have a per share exercise price of \$0.001, subject to proportional adjustments in the event of stock splits or combinations or similar events. The Pre-Funded Warrants will not expire until exercised in full. The Pre-Funded Warrants may not be exercised if the aggregate number of shares of Common Stock beneficially owned by the holder thereof immediately following such exercise would exceed a specified beneficial ownership limitation; provided, however, that a holder may increase or decrease the beneficial ownership limitation by giving 61 days' notice to the Company, but not to any percentage in excess of 19.99%. The Pre-Funded Warrants will further only be exercisable into Common Stock upon receipt of stockholder approval of an increase in the number of authorized shares of the Company's Common Stock (the "Stockholder Approval"), which the Company will first seek to obtain at a special meeting of stockholders to be held by December 31, 2023. If the Company does not obtain Stockholder Approval by December 31, 2023, it is required to pay liquidated damages of 2.0% of the aggregate purchase price paid by each holder of Pre-Funded Warrants. For any subsequent failure to obtain Stockholder Approval, the Company is required to pay an additional 2.0% as liquidated damages.

Jefferies LLC is acting as sole placement agent for the Private Placement.

Under the terms of the Purchase Agreement, the Company has agreed to prepare and file, within 15 days after the Closing (the "Filing Deadline"), one or more registration statements with the Securities and Exchange Commission (the "SEC") to register for resale the Common Stock issued under the Purchase Agreement and the shares of Common Stock issuable upon exercise of the Pre-Funded Warrants (the "Warrant Shares") issued pursuant to the Purchase Agreement (together, the "Registrable Securities"), and to cause the applicable registration statements to become effective within a specified period after the Filing Deadline (the "Effectiveness Deadline"). The Company also agreed to use its best efforts to keep such registration statement effective until the earlier of (i) the third anniversary of the date the initial registration statement is declared effective, or (ii) the date all Shares and Warrant Shares (assuming cashless exercise) held by or issuable to a Holder may be sold under Rule 144 without being subject to any volume, manner of sale or publicly available information requirements.

In the event the registration statement has not been filed by the Filing Deadline or has not been declared effective by the SEC by the Effectiveness Deadline, subject to certain limited exceptions, the Company has agreed to make pro rata payments to each Purchaser as liquidated damages in an amount equal to 1.0% of the Purchaser's Subscription Amount, as defined in the Purchase Agreement, per 20-day period or pro rata for any portion thereof for each such 20-day period during which such event continues, subject to certain caps set forth in the Purchase Agreement.

The Purchase Agreement contains customary representations, warranties and covenants that were made solely for the benefit of the parties to the Purchase Agreement. Such representations, warranties and covenants (i) are intended as a way of allocating risk between the parties to the Purchase Agreement and not as statements of fact, and (ii) may apply standards of materiality in a way that is different from what may be viewed as material by stockholders of, or other investors in, the Company. Accordingly, the Purchase Agreement is included with this filing only to provide investors with information regarding the terms of transaction and not to provide investors with any other factual information regarding the Company.

The Company has granted the Purchasers customary indemnification rights in connection with the registration statement. The Purchasers have also granted the Company customary indemnification rights in connection with the registration statement.

The foregoing is only a summary of the terms of the Purchase Agreement and the Pre-Funded Warrants issued under the Purchase Agreement, does not purport to be complete and is qualified in its entirety by reference to the full text of (i) the form of Purchase Agreement, a copy of which is attached to this report as Exhibit 10.1, and (ii) the form of Pre-Funded Warrant issued under the Purchase Agreement, a copy of which is attached to this report as Exhibit 4.1.

Item 2.02 Results of Operations and Financial Condition.

On August 14, 2023, the Company reported financial results and business highlights for the quarter ended June 30, 2023. A copy of this press release is furnished as Exhibit 99.1 to this Current Report on Form 8-K and is incorporated by reference.

The information in this Item 2.02 of this Current Report on Form 8-K (including Exhibit 99.1) is being furnished and shall not be deemed "filed" for purposes of Section 18 of the Securities Exchange Act of 1934, as amended (the "Exchange Act"), or otherwise subject to the liabilities of that Section, nor shall it be deemed incorporated by reference in any filing under the Securities Act of 1933, as amended, or the Exchange Act, except as expressly set forth by specific reference in such a filing.

Item 3.02 Unregistered Sales of Equity Securities.

The disclosure regarding the securities to be sold and issued under the Purchase Agreement as set forth under Item 1.01 of this report is incorporated by reference under this Item 3.02.

The securities described above under Item 1.01 have not been registered under the Securities Act of 1933, as amended (the "Securities Act"). Based in part upon the representations of the Purchasers in the Purchase Agreement, the Company relied on the exemption afforded by Regulation D under the Securities Act, and corresponding provisions of state securities or "blue sky" laws. Each of the Purchasers has represented that it is an "accredited investor" as defined in Regulation D of the Securities Act and that it is acquiring the securities for investment only and not with a view towards, or for resale in connection with, the public sale or distribution thereof, and appropriate legends will be affixed to the securities. The sale of the securities did not involve a public offering and was made without general solicitation or general advertising.

Neither this Current Report on Form 8-K nor any exhibit attached hereto is an offer to sell or the solicitation of an offer to buy any securities of the Company.

Item 8.01 Other Events

On August 14, 2023, the Company issued a press release announcing the Private Placement. A copy of the press release is attached as Exhibit 99.2 hereto and is incorporated by reference herein.

Item 9.01 Financial Statements and Exhibits.

(d) Exhibits.

Exhibit Number	Description
4.1	Form of Pre-Funded Warrant to Purchase Common Stock.
10.1	Form of Securities Purchase Agreement, dated August 14, 2023, by and among Taysha Gene Therapies, Inc. and the Purchasers.
99.1	Press release, dated August 14, 2023
99.2	Press release announcing Private Placement, dated August 14, 2023
104	Cover Page Interactive Data File (embedded within the Inline XBRL document).

SIGNATURES

Pursuant to the requirements of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned thereunto duly authorized.

Date: August 14, 2023

TAYSHA GENE THERAPIES, INC.

By: /s/ Kamran Alam

Kamran Alam

Chief Financial Officer

NEITHER THIS SECURITY NOR THE SECURITIES FOR WHICH THIS SECURITY IS EXERCISABLE HAVE BEEN REGISTERED UNDER THE SECURITIES ACT OF 1933, AS AMENDED, OR THE SECURITIES LAWS OF ANY STATE OF THE UNITED STATES. THE SECURITIES MAY NOT BE SOLD, OFFERED FOR SALE, PLEDGED, HYPOTHECATED, TRANSFERRED OR ASSIGNED IN THE ABSENCE OF AN EFFECTIVE REGISTRATION STATEMENT FOR THE SECURITIES UNDER APPLICABLE SECURITIES LAWS, OR UNLESS OFFERED, SOLD, PLEDGED, HYPOTHECATED OR TRANSFERRED PURSUANT TO AN AVAILABLE EXEMPTION FROM THE REGISTRATION REQUIREMENTS OF THOSE LAWS. THE COMPANY SHALL BE ENTITLED TO REQUIRE AN OPINION OF COUNSEL SATISFACTORY TO THE COMPANY THAT SUCH REGISTRATION IS NOT REQUIRED TO THE EXTENT THAT SUCH OPINION IS REQUIRED PURSUANT TO THAT CERTAIN SECURITIES PURCHASE AGREEMENT UNDER WHICH THE SECURITIES WERE ISSUED.

PRE-FUNDED WARRANT TO PURCHASE COMMON STOCK TAYSHA GENE THERAPIES, INC.

Warrant Shares: [•]

Issue Date: [•], 2023

THIS PRE-FUNDED WARRANT TO PURCHASE COMMON STOCK (the "Warrant") certifies that, for value received, [•] or its assigns (the "Holder") is entitled, upon the terms and subject to the limitations on exercise and the conditions hereinafter set forth, at any time on or after the date hereof (the "Initial Exercise Date") until this Warrant is exercised in full (the "Termination Date"), to subscribe for and purchase from TAYSHA GENE THERAPIES, INC., a Delaware corporation (the "Company"), up to [•] shares of common stock, par value \$0.00001 per share (the "Common Stock") (as subject to adjustment hereunder, the "Warrant Shares"). The purchase price of one share of Common Stock under this Warrant shall be equal to the Exercise Price, as defined in Section 2(b).

Section 1. <u>Definitions</u>. Capitalized terms used and not otherwise defined herein shall have the meanings set forth in that certain Securities Purchase Agreement (the "*Purchase Agreement*"), dated [•], 2023, among the Company and the purchasers signatory thereto.

Section 2. Exercise.

(a) Exercise of Warrant. Exercise of the purchase rights represented by this Warrant may be made, in whole or in part, at any time or times on or after the Initial Exercise Date and on or before the Termination Date by delivery to the Company of a duly executed facsimile copy or PDF copy submitted by e-mail (or e-mail attachment) of the Notice of Exercise in the form annexed hereto (the "Notice of Exercise"). Within the earlier of (i) two (2) Trading Days and (ii) the number of Trading Days comprising the Standard Settlement Period (as defined

in Section 2(d)(i) herein) following the date of exercise as aforesaid, the Holder shall deliver the aggregate Exercise Price for the Warrant Shares specified in the applicable Notice of Exercise by wire transfer or cashier's check drawn on a United States bank unless the cashless exercise procedure specified in Section 2(c) below is specified in the applicable Notice of Exercise. No ink-original Notice of Exercise shall be required, nor shall any medallion guarantee (or other type of guarantee or notarization) of any Notice of Exercise be required. Notwithstanding anything herein to the contrary, the Holder shall not be required to physically surrender this Warrant to the Company until the Holder has purchased all of the Warrant Shares available hereunder and the Warrant has been exercised in full, in which case, the Holder shall surrender this Warrant to the Company for cancellation within three (3) Trading Days of the date on which the final Notice of Exercise is delivered to the Company. Partial exercises of this Warrant resulting in purchases of a portion of the total number of Warrant Shares available hereunder shall have the effect of lowering the outstanding number of Warrant Shares purchasedhe hereunder in an amount equal to the applicable number of Warrant Shares purchased. The Holder and the Company shall maintain records showing the number of Warrant Shares purchased and the date of such purchases. The Company shall deliver any objection to any Notice of Exercise within one (1) Trading Day of receipt of such notice. The Holder and any assignee, by acceptance of this Warrant, acknowledge and agree that, by reason of the provisions of this paragraph, following the purchase of a portion of the Warrant Shares hereunder, the number of Warrant Shares available for purchase hereunder at any given time may be less than the amount stated on the face hereof.

- (b) Exercise Price. The aggregate exercise price of this Warrant, except for a nominal exercise price of \$0.001 per Warrant Share, was pre-funded to the Company on or prior to the Initial Exercise Date and, consequently, no additional consideration (other than the nominal exercise price of \$0.001 per Warrant Share) shall be required to be paid by the Holder to any Person to effect any exercise of this Warrant. The Holder shall not be entitled to the return or refund of all, or any portion, of such pre-paid aggregate exercise price under any circumstance or for any reason whatsoever. The remaining unpaid exercise price per share of Common Stock under this Warrant shall be \$0.001, subject to adjustment hereunder (the "Exercise Price").
- (c) <u>Cashless Exercise</u>. This Warrant may also be exercised, in whole or in part, at such time by means of a "*cashless exercise*" in which the Holder shall be entitled to receive a number of Warrant Shares equal to the quotient obtained by dividing [(A-B) (X)] by (A), where:
 - (A) = as applicable: (i) the VWAP on the Trading Day immediately preceding the date of the applicable Notice of Exercise if such Notice of Exercise is (1) both executed and delivered pursuant to Section 2(a) hereof on a day that is not a Trading Day or (2) both executed and delivered pursuant to Section 2(a) hereof on a Trading Day prior to the opening of "regular trading hours" (as defined in Rule 600(b) of Regulation NMS promulgated under the federal securities laws) on such Trading Day, (ii) at the option of the Holder, either (y) the VWAP on the Trading Day immediately preceding the date of the applicable Notice of Exercise or (z) the Bid Price of the Common Stock on the principal Trading Market as reported by Bloomberg L.P. ("*Bloomberg*") as of the time of the Holder's execution of the applicable Notice of Exercise if such Notice of Exercise is executed during "regular trading hours" on a Trading Day and is delivered within two (2)

hours thereafter (including until two (2) hours after the close of "regular trading hours" on a Trading Day) pursuant to Section 2(a) hereof or (iii) the VWAP on the date of the applicable Notice of Exercise if the date of such Notice of Exercise is a Trading Day and such Notice of Exercise is both executed and delivered pursuant to Section 2(a) hereof after the close of "regular trading hours" on such Trading Day;

- (B) = the Exercise Price of this Warrant, as adjusted hereunder; and
- (X) = the number of Warrant Shares that would be issuable upon exercise of this Warrant in accordance with the terms of this Warrant if such exercise were by means of a cash exercise rather than a cashless exercise.

If Warrant Shares are issued in such a cashless exercise, the parties acknowledge and agree that in accordance with Section 3(a)(9) of the Securities Act, the Warrant Shares shall take on the characteristics of the Warrants being exercised, and the holding period of this Warrant may be tacked on to the holding period of the Warrant Shares. The Company agrees not to take any position contrary to this Section 2(c).

"Bid Price" means, for any date, the price determined by the first of the following clauses that applies: (a) if the Common Stock is then listed or quoted on a Trading Market, the bid price of the Common Stock for the time in question (or the nearest preceding date) on the Trading Market on which the Common Stock is then listed or quoted as reported by Bloomberg (based on a Trading Day from 9:30 a.m. (New York City time) to 4:02 p.m. (New York City time)), (b) if OTCQB or OTCQX is not a Trading Market, the volume weighted average price of the Common Stock for such date (or the nearest preceding date) on OTCQB or OTCQX as applicable, (c) if the Common Stock is not then listed or quoted for trading on OTCQB or OTCQX and if prices for the Common Stock is then reported on The Pink Open Market (or a similar organization or agency succeeding to its functions of reporting prices), the most recent bid price per share of Common Stock so reported, or (d) in all other cases, the fair market value of a share of Common Stock as determined by an independent appraiser selected in good faith by the Holders of a majority in interest of the Securities then outstanding and reasonably acceptable to the Company, the fees and expenses of which shall be paid by the Company.

"VWAP" means, for any date, the price determined by the first of the following clauses that applies: (a) if the Common Stock is then listed or quoted on a Trading Market, the daily volume weighted average price of the Common Stock for such date (or the nearest preceding date) on the Trading Market on which the Common Stock is then listed or quoted as reported by Bloomberg (based on a Trading Day from 9:30 a.m. (New York City time) to 4:02 p.m. (New York City time)), (b) if OTCQB or OTCQX is not a Trading Market, the volume weighted average price of the Common Stock for such date (or the nearest preceding date) on OTCQB or OTCQX as applicable, (c) if the Common Stock is not then listed or quoted for trading on OTCQB or OTCQX and if prices for the Common Stock is then reported on The Pink Open Market (or a similar organization or agency succeeding to its functions of reporting prices), the most recent bid price per share of Common Stock so reported, or (d) in all other cases, the fair market value of a share of Common Stock as determined by an independent appraiser selected in good faith by the Holders of a majority in interest of the Securities then outstanding and reasonably acceptable to the Company, the fees and expenses of which shall be paid by the Company.

(d) Mechanics of Exercise.

(i) <u>Delivery of Warrant Shares Upon Exercise</u>. The Company shall cause the Warrant Shares purchased hereunder to be transmitted by the Transfer Agent to the Holder by crediting the account of the Holder's or its designee's balance account with The Depository Trust Company through its Deposit or Withdrawal at Custodian system ("DWAC") if the Company is then a participant in such system and either (A) there is an effective registration statement permitting the issuance of the Warrant Shares to or resale of the Warrant Shares by the Holder or (B) the Warrant Shares are eligible for resale by the Holder pursuant to Rule 144 (assuming cashless exercise of the Warrants), and otherwise by physical delivery of a certificate, registered in the Company's share register in the name of the Holder or its designee, for the number of Warrant Shares to which the Holder is entitled pursuant to such exercise to the address specified by the Holder in the Notice of Exercise by the date that is the later of (i) the earlier of (a) two (2) Trading Days after the delivery to the Company of the Notice of Exercise and (b) the number of Trading Days comprising the Standard Settlement Period after the delivery to the Company of the Notice of Exercise, and (ii) one (1) Trading Day after delivery of the aggregate Exercise Price to the Company (providing the foregoing clause (ii) shall not apply in the event of a cashless exercise) (such date, the "Warrant Share Delivery Date"). Upon delivery of the Notice of Exercise, the Holder shall be deemed for all corporate purposes to have become the holder of record of the Warrant Shares with respect to which this Warrant has been exercised, irrespective of the date of delivery of the Warrant Shares, provided that payment of the aggregate Exercise Price (other than in the case of a cashless exercise) is received within the earlier of (i) two (2) Trading Days and (ii) the number of Trading Days comprising the Standard Settlement Period following delivery of the Notice of Exercise. If the Company fails for any reason to deliver to the Holder the Warrant Shares subject to a Notice of Exercise by the Warrant Share Delivery Date, the Company shall pay to the Holder, in cash, as liquidated damages and not as a penalty, for each \$1,000 of Warrant Shares subject to such exercise (based on the VWAP of the Common Stock on the date of the applicable Notice of Exercise), \$10 per Trading Day (increasing to \$20 per Trading Day on the fifth Trading Day after such liquidated damages begin to accrue) for each Trading Day after such Warrant Share Delivery Date until such Warrant Shares are delivered or Holder rescinds such exercise. The Company agrees to maintain a transfer agent that is a participant in the FAST program so long as this Warrant remains outstanding and exercisable. As used herein, "Standard Settlement Period" means the standard settlement period, expressed in a number of Trading Days, on the Company's primary Trading Market with respect to the Common Stock as in effect on the date of delivery of the Notice of Exercise.

(ii) <u>Delivery of New Warrants Upon Exercise</u>. If this Warrant shall have been exercised in part, the Company shall, at the request of a Holder and upon surrender of this Warrant certificate, at the time of delivery of the Warrant Shares, deliver to the Holder a new Warrant evidencing the rights of the Holder to purchase the unpurchased Warrant Shares called for by this Warrant, which new Warrant shall in all other respects be identical with this Warrant.

(iii) <u>Rescission Rights</u>. If the Company fails to cause the Transfer Agent to transmit to the Holder the Warrant Shares pursuant to Section 2(d)(i) by the Warrant Share Delivery Date, then the Holder will have the right to rescind such exercise.

(iv) Compensation for Buy-In on Failure to Timely Deliver Warrant Shares Upon Exercise. In addition to any other rights available to the Holder, if the Company fails to cause the Transfer Agent to transmit to the Holder the Warrant Shares in accordance with the provisions of Section 2(d)(i) above pursuant to an exercise on or before the Warrant Share Delivery Date, and if after such date the Holder is required by its broker to purchase (in an open market transaction or otherwise) or the Holder's brokerage firm otherwise purchases, shares of Common Stock to deliver in satisfaction of a sale by the Holder of the Warrant Shares which the Holder anticipated receiving upon such exercise (a "Buy-In"), then the Company shall pay in cash to the Holder the amount, if any, by which (x) the Holder's total purchase price (including brokerage commissions, if any) for the shares of Common Stock so purchased exceeds (y) the product of (1) the lesser of the (a) the number of shares of Common Stock so purchased and (b) the aggregate number of Warrant Shares that the Company was required to deliver to the Holder in connection with the exercise at issue multiplied by (2) the actual sale price at which the sell order giving rise to such purchase obligation was executed (including any brokerage commissions). For example, if a Holder purchases shares of Common Stock having a total purchase price of \$11,000 to cover a Buy-In with respect to an attempted exercise of Common Stock with an aggregate sale price giving rise to such purchase obligation of \$10,000, the Company shall be required to pay the Holder \$1,000. The Holder shall provide the Company written notice after the occurrence of a Buy-In, indicating the amounts payable to the Holder in respect of the Buy-In together with applicable confirmations and other evidence reasonably requested by the Company. Nothing herein shall limit a Holder's right to pursue any other remedies available to it hereunder, at law or in equity including, without limitation, a decree of specific performance and/or injunctive relief with respect to the Company's failure to timely deliver the Common Stock upon exercise of the Warrant as required pursuant to the terms hereof.

(v) No Fractional Shares or Scrip. No fractional shares or scrip representing fractional shares shall be issued upon the exercise of this Warrant. As to any fraction of a share which the Holder would otherwise be entitled to purchase upon such exercise, the Company shall, at its election, either pay a cash adjustment in respect of such final fraction in an amount equal to such fraction multiplied by the Exercise Price or round up to the next whole share.

(vi) <u>Charges, Taxes and Expenses</u>. Issuance of Warrant Shares shall be made without charge to the Holder for any issue or transfer tax or other incidental expense in respect of the issuance of such Warrant Shares, all of which taxes and expenses shall be paid by the Company, and such Warrant Shares shall be issued in the name of the Holder or in such name or names as may be directed by the Holder; provided, however, that, in the event that Warrant Shares are to be issued in a name other than the name of the Holder, this Warrant when surrendered for exercise shall be accompanied by the Assignment Form attached hereto duly executed by the Holder and the Company may require, as a condition thereto, the payment of a sum sufficient to reimburse it for any transfer tax incidental thereto. The Company shall pay all Transfer Agent fees required for same-day processing of any Notice of Exercise and all fees to the Depository Trust Company (or another established clearing corporation performing similar functions) required for same-day electronic delivery of the Warrant Shares.

(vii) <u>Closing of Books</u>. The Company will not close its stockholder books or records in any manner which prevents the timely exercise of this Warrant, pursuant to the terms hereof.

(e) Holder's Exercise Limitations. Notwithstanding anything to the contrary herein, unless and until a charter amendment is filed with the Secretary of State of the State of Delaware (the "Charter Amendment") evidencing the Stockholder Approval (as defined in Section 5), the Company shall not effect any exercise of this Warrant, and a Holder shall not have the right to exercise any portion of this Warrant, pursuant to Section 2 or otherwise, to the extent that after giving effect to such issuance after exercise as set forth on the applicable Notice of Exercise, the Holder (together with (i) the Holder's Affiliates, (ii) any other Persons acting as a group together with the Holder or any of the Holder's Affiliates and (iii) any other Persons whose beneficial ownership of Common Stock would or could be aggregated with the Holder's for the purposes of Section 13(d) of the Exchange Act (such Persons, "Attribution Parties")), would beneficially own in excess of the Beneficial Ownership Limitation (as defined below). For purposes of the foregoing sentence, the number of shares of Common Stock beneficially owned by the Holder and its Affiliates and Attribution Parties shall include the number of shares of Common Stock issuable upon exercise of this Warrant with respect to which such determination is being made, but shall exclude the number of shares of Common Stock which would be issuable upon (i) exercise of the remaining, nonexercised portion of this Warrant beneficially owned by the Holder or any of its Affiliates or Attribution Parties and (ii) exercise or conversion of the unexercised or nonconverted portion of any other securities of the Company subject to a limitation on conversion or exercise analogous to the limitation contained herein beneficially owned by the Holder or any of its Affiliates or Attribution Parties. Except as set forth in the preceding sentence, for purposes of this Section 2(e), beneficial ownership shall be calculated in accordance with Section 13(d) of the Exchange Act and the rules and regulations promulgated thereunder, it being acknowledged by the Holder that the Company is not representing to the Holder that such calculation is in compliance with Section 13(d) of the Exchange Act and the Holder is solely responsible for any schedules required to be filed in accordance therewith. To the extent that the limitation contained in this Section 2(e) applies, the determination of whether this Warrant is exercisable (in relation to other securities owned by the Holder together with any Affiliates and Attribution Parties) and of which portion of this Warrant is exercisable shall be in the sole discretion of the Holder, and the submission of a Notice of Exercise shall be deemed to be the Holder's determination of whether this Warrant is exercisable (in relation to other securities owned by the Holder together with any Affiliates and Attribution Parties) and of which portion of this Warrant is exercisable, in each case subject to the Beneficial Ownership Limitation, and the Company shall have no obligation to verify or confirm the accuracy of such determination. In addition, a determination as to any group status as contemplated above shall be determined in accordance with Section 13(d) of the Exchange Act and the rules and regulations promulgated thereunder. For purposes of this Section 2(e), in determining the number of outstanding shares of Common Stock, a Holder may rely on the number of outstanding shares of Common Stock as reflected in (A) the Company's most recent periodic or annual report filed with the SEC, as the case may be, (B) a more recent public announcement by the Company or (C) a more recent written notice by the Company or the Transfer Agent setting forth the number of shares of Common Stock outstanding. Upon the written or oral request of a Holder, the Company shall within one Trading Day confirm orally and in writing to the Holder the number of shares of Common Stock then outstanding. In any case, the number of outstanding shares of Common Stock shall be determined after giving effect to the conversion or exercise of securities of the Company, including this Warrant, by the Holder

or its Affiliates or Attribution Parties since the date as of which such number of outstanding shares of Common Stock was reported. The "Beneficial Ownership Limitation" shall be [4.99% / 9.99%] of the number of shares of Common Stock outstanding immediately after giving effect to the issuance of shares of Common Stock issuable upon exercise of this Warrant. The Holder, upon notice to the Company, may increase or decrease the Beneficial Ownership Limitation provisions of this Section 2(e), provided that the Beneficial Ownership Limitation in no event exceeds [19.99]% of the number of shares of Common Stock outstanding immediately after giving effect to the issuance of shares of Common Stock upon exercise of this Warrant held by the Holder and the provisions of this Section 2(e) shall continue to apply. Any increase in the Beneficial Ownership Limitation will not be effective until the 61st day after such notice is delivered to the Company. The provisions of this paragraph shall be construed and implemented in a manner otherwise than in strict conformity with the terms of this Section 2(e) to correct this paragraph (or any portion hereof) which may be defective or inconsistent with the intended Beneficial Ownership Limitation herein contained or to make changes or supplements necessary or desirable to properly give effect to such limitation. The limitations contained in this paragraph shall apply to a successor holder of this Warrant.

Section 3. Certain Adjustments.

(a) Stock Dividends and Splits. If the Company, at any time while this Warrant is outstanding: (i) pays a stock dividend or otherwise makes a distribution or distributions on shares of its Common Stock or any other equity or equity equivalent securities payable in shares of Common Stock (which, for avoidance of doubt, shall not include any shares of Common Stock issued by the Company upon exercise of this Warrant), (ii) subdivides outstanding shares of Common Stock into a larger number of shares, (iii) combines (including by way of reverse stock split) outstanding shares of Common Stock into a smaller number of shares, or (iv) issues by reclassification of shares of the Common Stock any shares of capital stock of the Company, then in each case the Exercise Price shall be multiplied by a fraction of which the numerator shall be the number of shares of Common Stock (excluding treasury shares, if any) outstanding immediately before such event and of which the denominator shall be the number of shares of Common Stock outstanding immediately after such event, and the number of shares issuable upon exercise of this Warrant shall be proportionately adjusted such that the aggregate Exercise Price of this Warrant shall remain unchanged. Any adjustment made pursuant to this Section 3(a) shall become effective immediately after the record date for the determination of stockholders entitled to receive such dividend or distribution and shall become effective immediately after the effective date in the case of a subdivision, combination or re-classification.

(b) <u>Subsequent Rights Offerings</u>. In addition to any adjustments pursuant to Section 3(a) above, if at any time the Company grants, issues or sells any rights to purchase stock, warrants, securities or other property pro rata to the record holders of any class of Common Stock (the "*Purchase Rights*"), then the Holder will be entitled to acquire, upon the terms applicable to such Purchase Rights, the aggregate Purchase Rights which the Holder could have acquired if the Holder had held the number of shares of Common Stock acquirable upon complete exercise of this Warrant (without regard to any limitations on exercise hereof, including without limitation, the Beneficial Ownership Limitation) immediately before the date on which a record is taken for the grant, issuance or sale of such Purchase Rights, or, if no such record is taken, the date as of which the record holders of shares of Common Stock are to be

determined for the grant, issue or sale of such Purchase Rights (provided, however, that, to the extent that the Holder's right to participate in any such Purchase Right would result in the Holder exceeding the Beneficial Ownership Limitation, then the Holder shall not be entitled to participate in such Purchase Right to such extent (or beneficial ownership of such shares of Common Stock as a result of such Purchase Right to such extent) and such Purchase Right to such extent shall be held in abeyance for the Holder until such time, if ever, as its right thereto would not result in the Holder exceeding the Beneficial Ownership Limitation).

(c) <u>Pro Rata Distributions</u>. During such time as this Warrant is outstanding and except as covered by Section 3(d) below, if the Company shall declare or make any dividend or other distribution of its assets (or rights to acquire its assets) to holders of shares of Common Stock, by way of return of capital or otherwise (including, without limitation, any distribution of cash, stock or other securities, property or options by way of a dividend, spin off, reclassification, corporate rearrangement, scheme of arrangement or other similar transaction) (a "*Distribution*"), at any time after the issuance of this Warrant, then, in each such case, the Holder shall be entitled to participate in such Distribution to the same extent that the Holder would have participated therein if the Holder had held the number of shares of Common Stock acquirable upon complete exercise of this Warrant (without regard to any limitations on exercise hereof, including without limitation, the Beneficial Ownership Limitation) immediately before the date of which a record is taken for such Distribution, or, if no such record is taken, the date as of which the record holders of shares of Common Stock are to be determined for the participation in such Distribution (provided, however, that, to the extent that the Holder's right to participate in any such Distribution would result in the Holder exceeding the Beneficial Ownership Limitation, then the Holder shall not be entitled to participate in such Distribution to such extent (or in the beneficial ownership of any shares of Common Stock as a result of such Distribution to such extent) and the portion of such Distribution shall be held in abeyance for the benefit of the Holder until such time, if ever, as its right thereto would not result in the Holder exceeding the Beneficial Ownership Limitation).

(d) <u>Fundamental Transaction</u>. If, at any time while this Warrant is outstanding, (i) the Company, directly or indirectly, in one or more related transactions effects any merger or consolidation of the Company with or into another Person, (ii) the Company (or any Subsidiary), directly or indirectly, effects any sale, lease, license, assignment, transfer, conveyance or other disposition of all or substantially all of its assets in one or a series of related transactions, (iii) any, direct or indirect, purchase offer, tender offer or exchange offer (whether by the Company or another Person) is completed pursuant to which holders of Common Stock are permitted to sell, tender or exchange their shares for other securities, cash or property and has been accepted by the holders of 50% or more of the outstanding shares of Common Stock, (iv) the Company, directly or indirectly, in one or more related transactions effects any reclassification, reorganization or recapitalization of the Common Stock or any compulsory share exchange pursuant to which the Common Stock is effectively converted into or exchanged for other securities, cash or property, or (v) the Company, directly or indirectly, in one or more related transactions consummates a stock or share purchase agreement or other business combination (including, without limitation, a reorganization, recapitalization, spin-off, merger or scheme of arrangement) with another Person or group of Persons whereby such other Person or group acquires securities representing more than 50% of the aggregate voting power, including the power to vote on the election of directors of the Company, of the issued and outstanding

equity securities of the Company (not including any shares of Common Stock held by the other Person or other Persons making or party to, or associated or affiliated with the other Persons making or party to, such stock or share purchase agreement or other business combination) (each a "Fundamental Transaction"), then, upon any subsequent exercise of this Warrant, the Holder shall have the right to receive, for each Warrant Share that would have been issuable upon such exercise immediately prior to the occurrence of such Fundamental Transaction, at the option of the Holder (without regard to any limitation in Section 2(e) on the exercise of this Warrant), the number of shares of Common Stock of the successor or acquiring corporation or of the Company, if it is the surviving corporation, and any additional consideration (the "Alternate Consideration") receivable as a result of such Fundamental Transaction by a holder of the number of shares of Common Stock for which this Warrant is exercisable immediately prior to such Fundamental Transaction (without regard to any limitation in Section 2(e) on the exercise of this Warrant). For purposes of any such exercise, the determination of the Exercise Price shall be appropriately adjusted to apply to such Alternate Consideration based on the amount of Alternate Consideration issuable in respect of one share of Common Stock in such Fundamental Transaction, and the Company shall apportion the Exercise Price among the Alternate Consideration in a reasonable manner reflecting the relative value of any different components of the Alternate Consideration. If holders of Common Stock are given any choice as to the securities, cash or property to be received in a Fundamental Transaction, then the Holder shall be given the same choice as to the Alternate Consideration it receives upon any exercise of this Warrant following such Fundamental Transaction. The Company shall cause any successor entity in a Fundamental Transaction in which the Company is not the survivor (the "Successor Entity") to assume in writing all of the obligations of the Company under this Warrant prior to such Fundamental Transaction and shall, at the option of the Holder, deliver to the Holder in exchange for this Warrant a security of the Successor Entity evidenced by a written instrument substantially similar in form and substance to this Warrant which is exercisable for a corresponding number of shares of capital stock of such Successor Entity (or its parent entity) equivalent to the shares of Common Stock acquirable and receivable upon exercise of this Warrant (without regard to any limitations on the exercise of this Warrant) prior to such Fundamental Transaction, and with an exercise price which applies the exercise price hereunder to such shares of capital stock (but taking into account the relative value of the shares of Common Stock pursuant to such Fundamental Transaction and the value of such shares of capital stock, such number of shares of capital stock and such exercise price being for the purpose of protecting the economic value of this Warrant immediately prior to the consummation of such Fundamental Transaction), and which is reasonably satisfactory in form and substance to the Holder. Upon the occurrence of any such Fundamental Transaction, the Successor Entity shall succeed to, and be substituted for (so that from and after the date of such Fundamental Transaction, the provisions of this Warrant referring to the "Company" shall refer instead to the Successor Entity), and may exercise every right and power of the Company and shall assume all of the obligations of the Company under this Warrant with the same effect as if such Successor Entity had been named as the Company herein.

(e) <u>Calculations</u>. All calculations under this Section 3 shall be made to the nearest cent or the nearest 1/100th of a share, as the case may be. For purposes of this Section 3, the number of shares of Common Stock deemed to be issued and outstanding as of a given date shall be the sum of the number of shares of Common Stock (excluding treasury shares, if any) issued and outstanding.

(f) Notice to Holder.

(i) <u>Adjustment to Exercise Price</u>. Whenever the Exercise Price is adjusted pursuant to any provision of this Section 3, the Company shall promptly deliver to the Holder by facsimile or email a notice setting forth the Exercise Price after such adjustment and any resulting adjustment to the number of Warrant Shares and setting forth a brief statement of the facts requiring such adjustment.

(ii) Notice to Allow Exercise by Holder. If (A) the Company shall declare a dividend (or any other distribution in whatever form) on the Common Stock, (B) the Company shall declare a special nonrecurring cash dividend on or a redemption of the Common Stock, (C) the Company shall authorize the granting to all holders of the Common Stock rights or warrants to subscribe for or purchase any shares of capital stock of any class or of any rights, (D) the approval of any stockholders of the Company shall be required in connection with any reclassification of the Common Stock, any consolidation or merger to which the Company (or any of its Subsidiaries) is a party, any sale or transfer of all or substantially all of its assets, or any compulsory share exchange whereby the Common Stock is converted into other securities, cash or property, or (E) the Company shall authorize the voluntary or involuntary dissolution, liquidation or winding up of the affairs of the Company, then, in each case, the Company shall cause to be delivered by facsimile or email to the Holder at its last facsimile number or email address as it shall appear upon the Warrant Register of the Company, at least 10 calendar days prior to the applicable record or effective date hereinafter specified, a notice stating (x) the date on which a record is to be taken for the purpose of such dividend, distribution, redemption, rights or warrants, or if a record is not to be taken, the date as of which the holders of the Common Stock of record to be entitled to such dividend, distributions, redemption, rights or warrants are to be determined or (y) the date on which such reclassification, consolidation, merger, sale, transfer or share exchange is expected to become effective or close, and the date as of which it is expected that holders of the Common Stock of record shall be entitled to exchange their shares of Common Stock for securities, cash or other property deliverable upon such reclassification, consolidation, merger, sale, transfer or share exchange; provided that the failure to deliver such notice or any defect therein or in the delivery thereof shall not affect the validity of the corporate action required to be specified in such notice. To the extent that any notice provided in this Warrant constitutes, or contains, material, non-public information regarding the Company or any of the Subsidiaries, the Company shall simultaneously file such notice with the SEC pursuant to a Current Report on Form 8-K.The Holder shall remain entitled to exercise this Warrant during the period commencing on the date of such notice to the effective date of the event triggering such notice except as may otherwise be expressly set forth herein.

Section 4. Transfer of Warrant.

(a) <u>Transferability</u>. Subject to compliance with any applicable securities laws and the conditions set forth in Section 4(d) hereof, this Warrant and all rights hereunder (including, without limitation, any registration rights) are transferable, in whole or in part, upon surrender of this Warrant at the principal office of the Company or its designated agent, together with a written assignment of this Warrant substantially in the form attached hereto duly executed by the Holder or its agent or attorney and funds sufficient to pay any transfer taxes payable upon

the making of such transfer. Upon such surrender and, if required, such payment, the Company shall execute and deliver a new Warrant or Warrants in the name of the assignee or assignees, as applicable, and in the denomination or denominations specified in such instrument of assignment, and shall issue to the assignor a new Warrant evidencing the portion of this Warrant not so assigned, and this Warrant shall promptly be cancelled. Notwithstanding anything herein to the contrary, the Holder shall not be required to physically surrender this Warrant to the Company unless the Holder has assigned this Warrant in full, in which case, the Holder shall surrender this Warrant to the Company within three (3) Trading Days of the date on which the Holder delivers an assignment form to the Company assigning this Warrant in full. The Warrant, if properly assigned in accordance herewith, may be exercised by a new holder for the purchase of Warrant Shares without having a new Warrant issued.

- (b) New Warrants. This Warrant may be divided or combined with other Warrants upon presentation hereof at the aforesaid office of the Company, together with a written notice specifying the names and denominations in which new Warrants are to be issued, signed by the Holder or its agent or attorney. Subject to compliance with Section 4(a), as to any transfer which may be involved in such division or combination, the Company shall execute and deliver a new Warrant or Warrants in exchange for the Warrant or Warrants to be divided or combined in accordance with such notice. All Warrants issued on transfers or exchanges shall be dated the original Issue Date and shall be identical with this Warrant except as to the number of Warrant Shares issuable pursuant thereto.
- (c) <u>Warrant Register</u>. The Company shall register this Warrant, upon records to be maintained by the Company for that purpose (the "*Warrant Register*"), in the name of the record Holder hereof from time to time. The Company may deem and treat the registered Holder of this Warrant as the absolute owner hereof for the purpose of any exercise hereof or any distribution to the Holder, and for all other purposes, absent actual notice to the contrary.
- (d) Representation by the Holder. The Holder, by the acceptance hereof, represents and warrants that it is acquiring this Warrant and, upon any exercise hereof, will acquire the Warrant Shares issuable upon such exercise, for its own account and not with a view to or for distributing or reselling such Warrant Shares or any part thereof in violation of the Securities Act or any applicable state securities law, except pursuant to sales registered or exempted under the Securities Act.

Section 5. Stockholder Approval.

(a) As soon as practicable following the date hereof, the Company shall hold an annual or special meeting of stockholders (the "Stockholder Meeting") for the purpose of obtaining Stockholder Approval (as defined below). The Company shall use its best efforts to hold the Stockholder Meeting no later than December 31, 2023 (the "Stockholder Approval Deadline"). The Company shall use its best efforts to obtain the Stockholder Approval and shall cause the Board of Directors of the Company to recommend to the stockholders that they approve such matter. If, despite the Company's best efforts, Stockholder Approval is not effected on or prior to the Stockholder Approval Deadline, the Company shall cause an additional stockholder meeting to be held every three (3) months thereafter until such Stockholder Approval is obtained and the Charter Amendment is filed (each, a "Subsequent Stockholder Approval Deadline"). Once Stockholder Approval is obtained, the Company shall immediately file a charter amendment with the Secretary of State of the State of Delaware evidencing such Stockholder Approval.

(b) If the Company fails to obtain Stockholder Approval and file the Charter Amendment by the Stockholder Approval Deadline, the Company shall pay the Holder an amount in cash, as partial liquidated damages equal to the product of 2.0% multiplied by the aggregate purchase price paid by such Holder for the Warrant (the "*Damages*") within seven (7) calendar days of the missed Stockholder Approval Deadline. The Company shall pay the Holder Damages for each failure to obtain Stockholder Approval and file the Charter Amendment by any Subsequent Stockholder Approval Deadline within seven (7) calendar days of such Subsequent Stockholder Approval Deadline.

Section 6. Miscellaneous.

- (a) No Rights as Stockholder Until Exercise; No Settlement in Cash. This Warrant does not entitle the Holder to any voting rights, dividends or other rights as a stockholder of the Company prior to the exercise hereof as set forth in Section 2(d)(i), except as expressly set forth in Section 3. Without limiting any rights of a Holder to receive Warrant Shares on a "cashless exercise" pursuant to Section 2(c) or to receive cash payments pursuant to Section 2(d)(i) and Section 2(d)(iv) herein, in no event shall the Company be required to net cash settle an exercise of this Warrant.
- (b) <u>Loss, Theft, Destruction or Mutilation of Warrant</u>. The Company covenants that upon receipt by the Company of evidence reasonably satisfactory to it of the loss, theft, destruction or mutilation of this Warrant or any stock certificate relating to the Warrant Shares, and in case of loss, theft or destruction, of indemnity or security reasonably satisfactory to it (which, in the case of the Warrant, shall not include the posting of any bond), and upon surrender and cancellation of such Warrant or stock certificate, if mutilated, the Company will make and deliver a new Warrant or stock certificate of like tenor and dated as of such cancellation, in lieu of such Warrant or stock certificate.
- (c) <u>Saturdays, Sundays, Holidays, etc</u>. If the last or appointed day for the taking of any action or the expiration of any right required or granted herein shall not be a Trading Day, then such action may be taken, or such right may be exercised on the next succeeding Trading Day.
- (d) <u>Authorized Shares</u>. The Company does not currently have a sufficient number of authorized shares of Common Stock to allow the exercise of this Warrant for shares of Common Stock. The Company covenants that it will, upon stockholder approval increasing the number of authorized shares of Common Stock allowing for the exercise of the Warrant and the filing of the Charter Amendment evidencing the same (the "Stockholder Approval"), during the period the Warrant is outstanding, reserve from its authorized and unissued Common Stock a sufficient number of shares to provide for the issuance of the Warrant Shares upon the exercise of any purchase rights under this Warrant. The Company further covenants that its issuance of this Warrant shall

constitute full authority to its officers who are charged with the duty of issuing the necessary Warrant Shares upon the exercise of the purchase rights under this Warrant. The Company will take all such reasonable action as may be necessary to assure that such Warrant Shares may be issued as provided herein without violation of any applicable law or regulation, or of any requirements of the Trading Market upon which the Common Stock may be listed. The Company covenants that all Warrant Shares which may be issued upon the exercise of the purchase rights represented by this Warrant will, upon exercise of the purchase rights represented by this Warrant and payment for such Warrant Shares in accordance herewith, be duly authorized, validly issued, fully paid and nonassessable and free from all taxes, liens and charges created by the Company in respect of the issue thereof (other than taxes in respect of any transfer occurring contemporaneously with such issue).

Except and to the extent as waived or consented to by the Holder, the Company shall not by any action, including, without limitation, amending its certificate of incorporation (except for pursuant to the Stockholder Approval) or through any reorganization, transfer of assets, consolidation, merger, dissolution, issue or sale of securities or any other voluntary action, avoid or seek to avoid the observance or performance of any of the terms of this Warrant, but will at all times in good faith assist in the carrying out of all such terms and in the taking of all such actions as may be necessary or appropriate to protect the rights of Holder as set forth in this Warrant against impairment. Without limiting the generality of the foregoing, the Company will (i) not increase the par value of any Warrant Shares above the amount payable therefor upon such exercise immediately prior to such increase in par value, (ii) take all such action as may be necessary or appropriate in order that the Company may validly and legally issue fully paid and nonassessable Warrant Shares upon the exercise of this Warrant and (iii) use commercially reasonable efforts to obtain all such authorizations, exemptions or consents from any public regulatory body having jurisdiction thereof, as may be, necessary to enable the Company to perform its obligations under this Warrant.

Before taking any action that would result in an adjustment in the number of Warrant Shares for which this Warrant is exercisable or in the Exercise Price, the Company shall obtain all such authorizations or exemptions thereof, or consents thereto, as may be necessary from any public regulatory body or bodies having jurisdiction thereof.

- (e) <u>Jurisdiction</u>. All questions concerning the construction, validity, enforcement and interpretation of this Warrant shall be determined in accordance with the provisions of the Purchase Agreement.
- (f) <u>Restrictions</u>. The Holder acknowledges that the Warrant Shares acquired upon the exercise of this Warrant, if not registered, and the Holder does not utilize cashless exercise, will have restrictions upon resale imposed by state and federal securities laws.
- (g) Nonwaiver and Expenses. No course of dealing or any delay or failure to exercise any right hereunder on the part of Holder shall operate as a waiver of such right or otherwise prejudice the Holder's rights, powers or remedies. Without limiting any other provision of this Warrant or the Purchase Agreement, if the Company willfully and knowingly fails to comply with any provision of this Warrant, which results in any material damages to the Holder, the Company shall pay to the Holder such amounts as shall be sufficient to cover any costs and expenses including, but not limited to, reasonable attorneys' fees, including those of appellate proceedings, incurred by the Holder in collecting any amounts due pursuant hereto or in otherwise enforcing any of its rights, powers or remedies hereunder.

(h) Notices. All notices required or permitted hereunder shall be in writing and shall be deemed effectively given: (a) upon personal delivery to the party to be notified, (b) when sent by email or facsimile if sent during normal business hours of the recipient, and if sent at a time other than during normal business hours of the recipient, then on the next Business Day (provided, with respect to notices sent by email so long as such sent email is kept on file by the sending party and the sending party does not receive an automatically generated message from the recipient's email server that such email could not be delivered to such recipient), (c) five days after having been sent by registered or certified mail, return receipt requested, postage prepaid, or (d) one Business Day after deposit with a nationally recognized overnight courier, specifying next day delivery, with written verification of receipt. The addresses for such communications are:

If to the Company: Taysha Gene Therapies, Inc.

3000 Pegasus Park Drive, Suite 1430

Dallas, Texas 75247

Attention: Chief Financial Officer Email: KAlam@tayshagtx.com

With a copy to:

Cooley LLP

1299 Pennsylvania Avenue, NW

Suite 700

Washington, DC 20004 Attention: Madison Jones

Email: madison.jones@cooley.com

If to the Holder: To the address, email address or facsimile number set forth in the Warrant Register, or as otherwise provided by the Holder to the Company in accordance with this Section 6(h).

(i) <u>Limitation of Liability</u>. No provision hereof, in the absence of any affirmative action by the Holder to exercise this Warrant to purchase Warrant Shares, and no enumeration herein of the rights or privileges of the Holder, shall give rise to any liability of the Holder for the purchase price of any Common Stock or as a stockholder of the Company, whether such liability is asserted by the Company or by creditors of the Company.

(j) Remedies. The Holder, in addition to being entitled to exercise all rights granted by law, including recovery of damages, will be entitled to specific performance of its rights under this Warrant. The Company agrees that monetary damages would not be adequate compensation for any loss incurred by reason of a breach by it of the provisions of this Warrant and hereby agrees to waive and not to assert the defense in any action for specific performance that a remedy at law would be adequate.

- (k) <u>Successors and Assigns</u>. Subject to applicable securities laws, this Warrant and the rights and obligations evidenced hereby shall inure to the benefit of and be binding upon the successors and permitted assigns of the Company and the successors and permitted assigns of Holder. The provisions of this Warrant are intended to be for the benefit of any Holder from time to time of this Warrant and shall be enforceable by the Holder or holder of Warrant Shares.
- (l) <u>Amendment</u>. This Warrant may be modified or amended, or the provisions hereof waived with the written consent of the Company and the Holder.
- (m) <u>Severability</u>. Wherever possible, each provision of this Warrant shall be interpreted in such manner as to be effective and valid under applicable law, but if any provision of this Warrant shall be prohibited by or invalid under applicable law, such provision shall be ineffective to the extent of such prohibition or invalidity, without invalidating the remainder of such provisions or the remaining provisions of this Warrant.
- (n) <u>Headings</u>. The headings used in this Warrant are for the convenience of reference only and shall not, for any purpose, be deemed a part of this Warrant.

(Signature Page Follows)

I	N WITNESS V	VHEREOF, t	the Company	has caused thi	s Warrant to	be executed by	y its officer	thereunto c	luly authorize	ed as of the	date firs	st above
indicate	ed.											

TAYSHA GENE THERAPIES, INC.

Ву:		
Name: Sean Nolan		

Title: Chief Executive Officer

NOTICE OF EXERCISE

TO: TAYSHA GENE THERAPIES, INC.	
(1) The undersigned hereby elects to purchase Warrant Share exercised in full), and tenders herewith payment of the exercise price in full, to	
(2) Payment shall take the form of (check applicable box):	
[] in lawful money of the United States; or	
	ecessary, in accordance with the formula set forth in subsection 2(c), to r of Warrant Shares purchasable pursuant to the cashless exercise
(3) Please issue said Warrant Shares in the name of the undersigned or i	n such other name as is specified below:
(4) By its delivery of this Notice of Exercise, the undersigned represents evidenced hereby the Holder will not beneficially own in excess of the number Section 13(d) of the Securities Exchange Act of 1934, as amended) permitted The Warrant Shares shall be delivered to the following DWAC Account	or of shares of Common Stock (as determined in accordance with to be owned under Section 2(e) of the Warrant to which this notice related
[SIGNATURE C	OF HOLDER]
Name of Investing Entity:	
Signature of Authorized Signatory of Investing Entity:	
Name of Authorized Signatory:	
Title of Authorized Signatory:	
Date:	

ASSIGNMENT FORM

(To assign the foregoing Warrant, execute this form and supply required information. Do not use this form to purchase shares.)

FOR VALUE RECEIVED, the foregoing Warrant and all rights evidenced thereby are hereby assigned to

Name:	
	(Please Print)
Address:	
Phone Number:	(Please Print)
Email Address:	
Dated:,	
Holder's Signature:	
Holder's Address:	

SECURITIES PURCHASE AGREEMENT

This **SECURITIES PURCHASE AGREEMENT** (this "Agreement"), dated as of August 14, 2023, is made by and among **TAYSHA GENE THERAPIES, INC.**, a Delaware corporation (the "Company"), and the Purchasers listed on **Schedule 1** hereto, together with their permitted transferees (each, a "Purchaser" and collectively, the "Purchasers").

RECITALS:

- **A.** The Company and the Purchasers are executing and delivering this Agreement in reliance upon the exemption from securities registration afforded by Section 4(a)(2) of the Securities Act and/or Rule 506 of Regulation D promulgated thereunder.
- **B.** The Purchasers, severally and not jointly, desire to purchase and the Company desires to sell, upon the terms and conditions stated in this Agreement, shares of Common Stock (the "*Shares*") and Pre-Funded Warrants to purchase shares of Common Stock (the "*Pre-Funded Warrants*"), having an aggregate purchase price of up to \$150,000,000, as more fully described in this Agreement.
 - **C.** The capitalized terms used herein and not otherwise defined have the meanings given them in Article 7.

AGREEMENT

In consideration of the premises and the mutual covenants contained herein and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the Company and the Purchasers (severally and not jointly) hereby agree as follows:

ARTICLE 1

PURCHASE AND SALE OF SECURITIES

1.1 Closing.

(a) Purchase and Sale of Securities. At the closing of the transaction contemplated by this Agreement (the "Closing"), the Company will sell and issue to each Purchaser, and each Purchaser will, severally and not jointly, purchase from the Company, the number of Shares equal to, (x) the dollar amount set forth opposite such Purchaser's name on **Schedule 1** hereto under the heading "Subscription Amount" divided by (y) the Per Share Purchase Price, rounded down to the nearest whole share; provided, however, in the event the number of Shares resulting from the foregoing calculation would result in such Purchaser, together with its Attribution Parties, beneficially owning in excess of the Beneficial Ownership Limitation of the outstanding Common Stock immediately after the Closing, then (i) the number of Shares otherwise issuable to such Purchaser at the Closing will be reduced by the number (such number, the "Overage Number") of Shares that would result in such Purchaser beneficially owning, together with its Attribution Parties, no more than the Beneficial Ownership Limitation of the outstanding Common Stock immediately after the Closing, (ii) if elected by the Purchaser, the Company will issue to such Purchaser at the Closing a Pre-Funded Warrant that is exercisable for a number of Warrant Shares that is equal to the Overage Number, (iii) the Subscription Amount payable by such Purchaser at the Closing pursuant to Section 1.1(b) below shall be reduced by \$0.001 for each Warrant Share subject to the Pre-Funded Warrant being purchased by such Purchaser and (iv) to the extent the Purchaser has elected not to purchase Pre-Funded Warrants, such Purchaser's Subscription Amount shall equal to the number of Shares such Purchaser purchases at Closing multiplied by the Per Share Purchase Price. The Pre-Funded Warrants shall have an exercise price of \$0.001 per Warrant Share. The applicable Purchaser's name, Beneficial Ownership Limitation, Shares to be acquired, Warrant Shares underlying the Pre-Funded Warrant, aggregate Subscription Amount and aggregate amount of funds to be payable pursuant to this Section 1.1(a) are set forth on **Schedule 1**, provided the Warrant Shares underlying the Pre-Funded Warrant shall be increased, if applicable, and the Shares reduced, as necessary, as a result of any purchase

by such Purchaser (or its Attribution Parties) of shares of Common Stock (or securities exercisable or convertible into shares of Common Stock) following the execution of this Agreement and prior to the Closing (other than pursuant to this Agreement) to ensure that such Purchaser, together with its Attribution Parties, does not beneficially own in excess of the Beneficial Ownership Limitation of the outstanding shares of Common Stock immediately after the Closing.

- (b) Payment. At the Closing, each Purchaser will pay to an account designated by the Company, by wire transfer of immediately available funds, the amount set forth opposite its name on Schedule 1 hereto under the heading "Aggregate Purchase Price (Wire Amount)" (as such Schedule 1 may be amended as set forth in Section 1.1(a)). The Company will (i) instruct the Transfer Agent to credit each Purchaser the number of Shares purchased by the Purchaser pursuant to Section 1.1 hereof, (ii) if applicable, issue a certificate evidencing the Pre-Funded Warrants purchased by such Purchaser pursuant to Section 1.1 hereof and (iii) on the Closing Date (defined below) deliver written notice from the Company or account statements from the Transfer Agent evidencing the issuance to the Purchaser of the Shares and Pre-Funded Warrants on and as of the Closing Date, provided that, if requested by a Purchaser due to such Purchaser's settlement requirements, the Company shall provide a book entry statement from the Transfer Agent reflecting the issuance of the Shares in the name of the Purchaser (or its nominee as directed by such Purchaser in its delivery instructions) on the Closing Date.
- **(c) Closing Date.** The Closing will take place as soon as reasonably practicable on or after the date hereof as agreed between the Company and the Purchasers, but in no event later than August 16, 2023 (the date on which the Closing actually occurs, the "Closing Date") and the Closing will be held remotely via the exchange of documents and signatures, or at such other time and place as agreed upon by the Company and the Purchasers subscribing for a majority of the Shares and Pre-Funded Warrants to be sold and issued hereunder, based on the amounts set forth on **Schedule 1** hereto under the heading "Subscription Amount".

ARTICLE 2

REPRESENTATIONS AND WARRANTIES OF THE COMPANY

Except as specifically contemplated by this Agreement, the Company hereby represents and warrants to the Purchasers and the Placement Agent as of the date of this Agreement that:

- **2.1 Good Standing of the Company; Subsidiaries.** The Company has been duly incorporated, is validly existing as a corporation in good standing under the laws of the jurisdiction of its incorporation, has the corporate power and authority to own its property and to conduct its business as described in the reports, schedules, forms, statements and other documents required to be filed by it with the SEC, pursuant to the reporting requirements of the Exchange Act and the Securities Act (all of the foregoing filed prior to the date hereof and all exhibits included therein and financial statements and schedules thereto and documents (other than exhibits) incorporated by reference therein, the "SEC Documents") and is duly qualified to transact business and is in good standing in each jurisdiction in which the conduct of its business or its ownership or leasing of property requires such qualification, except to the extent that the failure to be so qualified or be in good standing would not have a Material Adverse Effect. The Company does not have any "significant subsidiaries" (as defined in Regulation S-X) and does not otherwise own any shares of capital stock or any interest in any other Person. The Company does not control directly or indirectly or have any direct or indirect equity participation or similar interest in any corporation, partnership, limited liability company, joint venture, trust or other business association or entity.
- **2.2 Authorization of Share Capital.** The authorized capital stock of the Company consists of 200,000,000 shares of Common Stock, \$0.00001 par value per share and 10,000,000 shares of Preferred Stock, \$0.00001 par value per share. All of the issued and outstanding shares of Common Stock have been duly authorized and are validly issued, fully paid and non-assessable and were not issued in violation of the preemptive or similar rights of

any security holder of the Company. The issuance and sale of the Securities will not obligate the Company to issue shares of Common Stock or other securities to any Person (other than the Purchasers or their permitted assignees/transferees). There are no outstanding securities or instruments of the Company with any provision that adjusts the exercise, conversion, exchange or reset price of such security or instrument upon an issuance of securities by the Company. There are no outstanding securities or instruments of the Company that contain any redemption or similar provisions, and there are no contracts, commitments, understandings or arrangements by which the Company is or may become bound to redeem a security of the Company.

- **2.3 Authorization of Securities.** The Shares have been duly authorized and, when issued and delivered in accordance with the terms of this Agreement, will be validly issued, fully paid and non-assessable, and will not be subject to any preemptive or similar rights of shareholders of the Company. The Pre-Funded Warrants have been duly authorized by the Company and, when executed and delivered by the Company, will be valid and binding agreements of the Company, enforceable against the Company in accordance with their terms, except as the enforcement thereof may be limited by bankruptcy, insolvency, reorganization, moratorium or other similar laws relating to or affecting the rights and remedies of creditors or by general equitable principles. The Warrant Shares shall, pursuant to Section 4.11 below, have been duly authorized and validly reserved for issuance upon exercise of the Warrants in a number sufficient to meet the exercise requirements. The Warrant Shares, when issued and delivered upon exercise of the Pre-Funded Warrants in accordance therewith, will be validly issued, fully paid and nonassessable, and the issuance of the Warrant Shares is not subject to any preemptive rights, rights of first refusal or other similar rights to subscribe for or purchase the Warrant Shares.
- **2.4 Private Placement.** Neither the Company nor any of its Affiliates, nor any Person acting on its or their behalf, has, directly or indirectly, made any offers or sales of any security or solicited any offers to buy any security, or taken any other action under any circumstances that would require registration of the Shares, the Pre-Funded Warrants or the Warrants Shares (collectively, the "Securities") under the Securities Act. Assuming the accuracy of the representations and warranties of the Purchasers contained in Article 3 hereof, the offer, sale and issuance of the Securities are exempt from registration under the Securities Act.
- **2.5 No Integrated Offering.** Neither the Company nor its Affiliates nor any Person acting on their behalf has, directly or indirectly, made any offers or sales of any Company security or solicited any offers to buy any Company security, under circumstances that would adversely affect reliance by the Company on Section 4(a)(2) and Regulation D for the exemption from registration for the transactions contemplated hereby or would require registration of the Securities under the 1933 Act.
- **2.6 No Directed Selling Efforts or General Solicitation**. Neither the Company nor any Person acting on its behalf has conducted any general solicitation or general advertising (as those terms are used in Regulation D promulgated under the 1933 Act) in connection with the offer or sale of any of the Securities.
- **2.7 Authorization and Execution of Agreement; Binding Obligation.** This Agreement has been duly authorized, executed and delivered by the Company. The Company has all requisite corporate power and authority to execute, deliver and perform its obligations under this Agreement. Upon the execution and delivery of this Agreement, this Agreement shall constitute a valid and binding obligation of the Company, enforceable in accordance with its terms, except as enforceability may be limited by applicable bankruptcy, insolvency, reorganization, moratorium or similar laws affecting creditors' and contracting parties' rights generally and except as enforceability may be subject to general principles of equity and except as rights to indemnity and contribution may be limited by state or federal securities laws or public policy underlying such laws.

- **2.8 Absence of Defaults and Conflicts.** Neither the Company nor any of its subsidiaries is (a) in violation of its certificate of incorporation or bylaws or similar organizational documents, as applicable, or (b) is in violation or default (or, with the giving of notice or lapse of time, would be in violation or default) ("Default") under any indenture, loan, credit agreement, note, lease, license agreement, contract, franchise or other agreement or instrument (including, without limitation, any pledge agreement, security agreement, mortgage or other instrument or agreement evidencing, guaranteeing, securing or relating to indebtedness) to which the Company or any of its subsidiaries is a party or by which any of them may be bound, or to which any of their respective properties or assets are subject (each, an "Existing Instrument"), except in the case of this clause (b) for such Defaults as would not reasonably be expected, individually or in the aggregate, to have a Material Adverse Effect. The Company's execution, delivery and performance of the Transaction Documents and consummation of the transactions contemplated hereby and thereby, including the issuance and sale of the Securities (i) have been duly authorized by all necessary corporate action, and will not result in any violation of the provisions of the articles of association or bylaws or similar organizational documents, as applicable, of the Company or any of its subsidiaries, (ii) will not conflict with or constitute a breach of, or Default or a Debt Repayment Triggering Event (as defined below) under, or result in the creation or imposition of any lien, charge or encumbrance upon any property or assets of the Company or any of its subsidiaries pursuant to, or require the consent of any other party to, any Existing Instrument, except as would not reasonably be expected to have, individually or in the aggregate, a Material Adverse Effect, and (iii) will not result in any violation of any law, administrative regulation or administrative or court decree applicable to the Company or any of its subsidiaries, except as would not reasonably be expected to have, individually or in the aggregate, a Material Adverse Effect. As used herein, a "Debt Repayment Triggering Event" means any event or condition which gives, or with the giving of notice or lapse of time would give, the holder of any note, debenture or other evidence of indebtedness (or any person acting on such holder's behalf) the right to require the repurchase, redemption or repayment of all or a portion of such indebtedness by the Company or any of its subsidiaries.
- **2.9 Absence of Further Requirements.** Except as provided by Section 4.11, no filing with, or authorization, approval, consent, license, order, registration, exemption, qualification or decree of, any court or governmental authority or agency or any sub-division thereof is required for the performance by the Company of its obligations hereunder, in connection with the offering, issuance or sale of the Securities under this Agreement or the Pre-Funded Warrants (collectively, the "*Transaction Documents*"), as applicable, or the consummation of the transactions contemplated by the Transaction Documents, except such as have been already obtained or as may be required under the Securities Act or the rules and regulations of the SEC thereunder, state securities or blue sky laws, the rules and regulations of the Financial Industry Regulatory Authority, Inc. or Nasdaq.
- **2.10 No Material Adverse Effect.** Except as otherwise disclosed in the SEC Documents filed at least one Business Day prior to the date hereof, subsequent to the respective dates as of which information is given in the SEC Documents: (a) the Company and its subsidiaries (considered as one entity) has not sustained any material loss or material interference with its business from fire, explosion, flood or other calamity, whether or not covered by insurance, or from any labor dispute or court or governmental action, order or decree, (b) there has not been any change in the share capital or increase in short-term or long-term debt of the Company, other than a change in the number of outstanding shares of Common Stock due to the issuance of shares upon the exercise or settlement of outstanding options, warrants or restricted stock units as described in the SEC Documents, and (c) there has not occurred any Material Adverse Effect, or any development that would result, or would reasonably be expected to result, in a prospective Material Adverse Effect, in or affecting the condition, financial or otherwise, or in or affecting the revenues, business, assets, management, financial position, shareholders' equity, operations, results of operations or prospects of the Company.
- **2.11 Absence of Proceedings.** There is no action, suit, proceeding, inquiry or investigation brought by or before any governmental entity now pending or, to the knowledge of the Company, threatened, against or affecting the Company or any of its subsidiaries, which would be reasonably expected, individually or in the aggregate, to have a Material Adverse Effect or materially and adversely affect the consummation of the transactions contemplated by

the Transaction Documents or the performance by the Company of its obligations hereunder and thereunder; and the aggregate of all pending legal or governmental proceedings to which the Company or any such subsidiary is a party or of which any of their respective properties or assets is the subject, including ordinary routine litigation incidental to their business, if determined adversely to the Company or such subsidiary, would not reasonably be expected to have a Material Adverse Effect. There are no outstanding governmental orders and no unsatisfied judgments, penalties or awards against or affecting the Company or any of its properties or assets, except for any that are not required to be disclosed in the SEC Documents. No labor dispute with the employees of the Company or any of its subsidiaries, or with the employees of any principal supplier, manufacturer, customer or contractor of the Company, exists or, to the knowledge of the Company, is threatened or imminent, which could reasonably be expected, individually or in the aggregate, to result in a Material Adverse Effect.

- **2.12 Investment Company Act of 1940.** The Company is not, and after giving effect to the offering and sale of the Securities and the application of the proceeds thereof as described herein will not be, required to register as an "investment company" as such term is defined in the Investment Company Act of 1940, as amended.
- **2.13 Registration Rights.** Except as described in the SEC Documents, there are no contracts, agreements or understandings between the Company and any person granting such person the right to require the Company to file a registration statement under the Securities Act with respect to any securities of the Company or to require the Company to include such securities with the Shares and Warrant Shares registered pursuant to a Registration Statement other than rights that have been validly waived.
- **2.14 Title to Real and Personal Property.** The Company and its subsidiaries have good and marketable title to all of the real and personal property and other assets reflected as owned in the financial statements referred to in the consolidated financial statements of the Company included in the SEC Documents filed in calendar year 2023, in each case free and clear of any security interests, mortgages, liens, encumbrances, equities, adverse claims and other defects, except as do not materially interfere with the use made or proposed to be made of such property and other assets by the Company. The real property, improvements, equipment and personal property held under lease by the Company or any of its subsidiaries are held under valid and enforceable leases, with such exceptions as are not material and do not materially interfere with the use made or proposed to be made of such real property, improvements, equipment or personal property by the Company or such subsidiary.
- 2.15 Intellectual Property Rights. The Company and its subsidiaries own, or have obtained valid and enforceable licenses for, the inventions, patent applications, patents, trademarks, trade names, service names, copyrights, know how, trade secrets and other intellectual property (1) described in the SEC Documents as being owned or licensed by them or (2) which are necessary for the conduct of their respective businesses as currently conducted or as currently proposed in the SEC Documents to be conducted (collectively, "Intellectual Property") except in the case of clause (2) where the failure to own, possess or acquire such rights would not reasonably be expected, individually or in the aggregate, to result in a material liability or the loss of a material benefit. Except as would not reasonably be expected, individually or in the aggregate, to result in a material liability or the loss of a material benefit, to the Company's knowledge: (i) there are no third parties who have rights to any Intellectual Property; and (ii) there is no infringement by third parties of any Intellectual Property. To the Company's knowledge, the conduct of the Company's business as currently conducted and as proposed in the SEC Documents to be conducted does not and would not infringe, misappropriate or otherwise violate any third party's Intellectual Property. Except as would not reasonably be expected, individually or in the aggregate, to result in a material liability or the loss of a material benefit, there is no pending or, to the Company's knowledge, threatened action, suit, proceeding or claim by others: (A) challenging the Company's or its subsidiaries' rights in or to any Intellectual Property, and the Company is unaware of any facts which would form a reasonable basis for any such action, suit, proceeding or claim; (B) challenging the validity, enforceability or scope of any Intellectual Property, and the Company is unaware of any facts which would form a reasonable basis for any such action, suit, proceeding or

claim; or (C) asserting that the Company or any of its subsidiaries infringes or otherwise violates, or would, upon the commercialization of any product or service described in the SEC Documents as under development, infringe or violate, any patent, trademark, trade name, service name, copyright, trade secret or other proprietary rights of others, and the Company is unaware of any facts which would form a reasonable basis for any such action, suit, proceeding or claim. Except as would not reasonably be expected, individually or in the aggregate, to result in a material liability or the loss of a material benefit, the Company and its subsidiaries have complied with the terms of each agreement pursuant to which Intellectual Property has been licensed to the Company or its subsidiaries, and all such agreements are in full force and effect. The product candidates described in the SEC Documents as under development by the Company or its subsidiary fall within the scope of the claims of one or more patents or patent applications owned by, or exclusively licensed to, the Company or any such subsidiary.

- **2.16 Insurance.** Each of the Company and its subsidiaries are insured by recognized and reputable institutions with policies in such amounts and with such deductibles and covering such risks as the Company reasonably believes are generally deemed customary for their businesses including, but not limited to, policies covering real and personal property owned or leased by the Company and its subsidiaries against theft, damage, destruction, acts of vandalism and earthquakes and policies covering the Company and its subsidiaries for clinical trial liability claims. The Company has no reasonable basis to believe that it or any of its subsidiaries will not be able (i) to renew its existing insurance coverage as and when such policies expire or (ii) to obtain comparable coverage from similar institutions as may be necessary or appropriate to conduct its business as now conducted and at a cost that would not reasonably be expected to have a Material Adverse Effect. Neither the Company nor any of its subsidiaries has been denied any material insurance coverage which it has sought or for which it has applied.
- **2.17 Licenses and Permits.** The Company and its subsidiaries possess such valid and current certificates, registrations, licenses, authorizations or permits required by local, state, federal or foreign, regulatory agencies or bodies to conduct their respective businesses as currently conducted and as described in the SEC Documents ("**Permits**"), except where the failure to so possess would not reasonably be expected to, individually or in the aggregate, result in a Material Adverse Effect. Neither the Company nor any of its subsidiaries is in violation of, or in default under, any of the Permits or, to the knowledge of the Company, has received any notice of proceedings relating to the termination, revocation or modification of, or non-compliance with, any Permit, except as would not reasonably be expected to have a Material Adverse Effect.
- **2.18 Accounting Controls.** The Company has taken all actions reasonably necessary to ensure that, within the time period required by applicable law, the Company will have established and will maintain a system of internal control over financial reporting (as such term is defined in Rule 13a-15(f) under the Exchange Act) sufficient to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with United States generally accepted accounting principles ("U.S. GAAP"). Since the end of the Company's most recent audited fiscal year, there has been (A) no material weakness in the Company's internal control over financial reporting (whether or not remediated) and (B) no change in the Company's internal control over financial reporting that has materially affected, or is reasonably likely to materially affect, the Company's internal control over financial reporting.
- **2.19 Disclosure Controls.** The Company maintains disclosure controls and procedures (as such term is defined in Rule 13a-15(e) under the Exchange Act) that comply with the applicable requirements of the Exchange Act; and such disclosure controls and procedures have been designed to ensure that (i) material information relating to the Company is made known to the Company's principal executive officer and principal financial officer by others within the Company and (ii) information required to be disclosed by the Company in reports that it files, furnishes or submits under the Exchange Act is recorded, processed, summarized and reported within the timeframes specified in the SEC's rules and forms, including controls and procedures designed to ensure that such information is accumulated and communicated the Company's management as appropriate to allow timely decisions regarding required disclosure. The Company has carried out evaluations of the effectiveness of its disclosure controls and procedures as required by Rule 13a-15 of the Exchange Act.

2.20 Independent Accountants. Deloitte & Touche LLP, who have certified the financial statements and supporting schedules of the Company that are included in the SEC Documents and which will be included as a part of the Registration Statement, is an independent registered public accounting firm with respect to the Company as required by the Securities Act and the rules and regulations of the SEC thereunder.

2.21 SEC Documents. The Company has timely filed the SEC Documents required to be filed by it with the SEC, under the Securities Act and the Exchange Act, for the twelve calendar months preceding the date hereof. As of their respective dates, the SEC Documents complied in all material respects with the requirements of the Exchange Act or the Securities Act, as the case may be, and the rules and regulations of the SEC promulgated thereunder applicable to the SEC Documents, and none of the SEC Documents, at the time they were filed with the SEC, contained any untrue statement of a material fact or omitted to state a material fact required to be stated therein or necessary in order to make the statements therein, in light of the circumstances under which they were made, not misleading. There are no material outstanding or unresolved comments in comment letters from the staff of the Division of Corporation Finance of the SEC with respect to any of the SEC Documents. The Company meets the requirements for use of Form S-3 under the Securities Act.

2.22 Financial Statements. (a) The financial statements included in the SEC Documents since the end of the Company's most recent audited fiscal year, together with the related schedules and notes, present fairly, in all material respects, the financial position of the Company at the dates indicated and the statement of operations, shareholders' equity and cash flows of the Company for the periods specified; said financial statements have been prepared in conformity with U.S. GAAP applied on a consistent basis throughout the periods involved except, in the case of unaudited interim financial statements, for normal year-end audit adjustments and the exclusion of footnotes. The summary financial information included in the SEC Documents since the end of the Company's most recent audited fiscal year, if any, present fairly, in all material respects, the information shown therein and have been compiled on a basis consistent in all material respects with that of the audited financial statements included in the SEC Documents. (b) There are no off-balance sheet arrangements, outstanding guarantees or other contingent obligations of the Company that would reasonably be expected to have a Material Adverse Effect. There are no transactions, arrangements or other relationships between and/or among the Company, any of its affiliates (as such term is defined in Rule 405 of the Securities Act) and any unconsolidated entity, including, but not limited to, any structured finance, special purpose or limited purpose entity, that would reasonably be expected to materially affect the Company's liquidity or the availability of or requirements for its capital resources required to be described in SEC Documents which have not been described as required. All disclosures contained in the SEC Documents regarding "non-GAAP financial measures" (as defined by the rules and regulations of the SEC) comply with Regulation G of the Exchange Act and Item 10 of Regulation S-K of the Securities Act, to the extent applicable. There are no financial statements (historical or pro forma) that are required to be included in the SEC Documents that are not so included as required. The interactive data in eXtensible Business Reporting Language included or incorporated by reference in the SEC Documents fairly present the information called for in all material respects and have been prepared in accordance with the SEC's rules and guidelines applicable thereto. Except as would not, in the aggregate, reasonably be expected to have a Material Adverse Effect, since the date of the latest audited financial statements included in the SEC Documents, and, except as disclosed in a subsequent SEC Document filed at least one Business Day prior to the date hereof, the Company has not (i) sustained any loss or interference with its business from fire, explosion, flood or other calamity, whether or not covered by insurance, or from any labor dispute or court or governmental action, order or decree, (ii) issued or granted any securities (other than pursuant to employee benefit plans, qualified stock option plans or other equity compensation plans or arrangements existing on the date hereof and disclosed in the SEC Documents), (iii) incurred any material liability or obligation, direct or contingent, other than liabilities and obligations that were incurred in the ordinary course of business, (iv) entered into any material transaction not in the ordinary course of business, or (v) declared or paid any dividend on its capital stock.

- **2.23 Tax Law Compliance.** The Company and its subsidiaries have filed all material United States (federal, state and local), and foreign (state and local) income and franchise tax returns or have properly requested extensions thereof and have paid all taxes required to be paid by any of them and, if due and payable, any related or similar assessment, fine or penalty levied against any of them except as may be being contested in good faith and by appropriate proceedings or except where the failure to pay such taxes could not reasonably be expected to result in a Material Adverse Effect. The Company has made adequate charges, accruals and reserves in the financial statements included in the SEC Documents since the end of the Company's most recent audited fiscal year in respect of all federal, state, and foreign income and franchise taxes for all periods as to which the tax liability of the Company or any of its subsidiaries has not been finally determined.
- **2.24 Related Party Transactions.** Other than the transactions contemplated by this Agreement, there are no business relationships or related-party transactions involving the Company or any of its subsidiaries or any other person required to be described in the SEC Documents that have not been described as required.
- **2.25 Commission Agreements.** The Company is not a party to any contract, agreement or understanding with any person that would give rise to a valid claim against the Company or the Placement Agents for a brokerage commission, finder's fee or like payment in connection with any transaction contemplated by this Agreement, except for dealings with the Placement Agents, whose commissions and fees will be paid by the Company.
- **2.26 Foreign Corrupt Practices Act.** Neither the Company nor any of its subsidiaries nor, to the knowledge of the Company, any director, officer, agent, employee, affiliate or other person acting on behalf of the Company or any of its subsidiaries has, in the course of its actions for, or on behalf of, the Company or any of its subsidiaries (i) used any corporate funds for any unlawful contribution, gift, entertainment or other unlawful expenses relating to political activity; (ii) made any direct or indirect unlawful payment to any domestic government official, "foreign official" (as defined in the U.S. Foreign Corrupt Practices Act of 1977, as amended, and the rules and regulations thereunder (collectively, the "*FCPA*")) or employee from corporate funds; (iii) violated or is in violation of any provision of the FCPA or any applicable non-U.S. anti-bribery statute or regulation; or (iv) made any unlawful bribe, rebate, payoff, influence payment, kickback or other unlawful payment to any domestic government official, such foreign official or employee; and the Company and its subsidiaries and, to the knowledge of the Company, the Company's affiliates have conducted their respective businesses in compliance with the FCPA and have instituted and maintain policies and procedures designed to ensure, and which are reasonably expected to continue to ensure, continued compliance therewith.
- **2.27 Money Laundering Laws.** The operations of the Company and its subsidiaries are, and have been conducted at all times, in compliance with applicable financial recordkeeping and reporting requirements of the Currency and Foreign Transactions Reporting Act of 1970, as amended, the money laundering statutes of all applicable jurisdictions, the rules and regulations thereunder and any related or similar applicable rules, regulations or guidelines, issued, administered or enforced by any governmental agency (collectively, the "*Money Laundering Laws*") and no action, suit or proceeding by or before any court or governmental agency, authority or body or any arbitrator involving the Company or any of its subsidiaries with respect to the Money Laundering Laws is pending or, to the knowledge of the Company, threatened.
- **2.28 OFAC.** Neither the Company nor any of its subsidiaries nor, to the knowledge of the Company, after due inquiry, any director, officer, agent, employee, affiliate or other person acting on behalf of the Company or any of its subsidiaries is currently subject to any applicable sanctions administered by the Office of Foreign Assets Control of the U.S. Treasury Department ("*OFAC*"), the United Nations Security Council, the European Union,

Her Majesty's Treasury, or other relevant sanctions authority (collectively, "*Sanctions*"), nor is the Company located, organized or resident in a country or territory that is the subject of Sanctions (including, without limitations, Cuba, Iran, North Korea, and the Crimea, so-called Donetsk People's Republic, and so-called Luhansk People's Republic regions of Ukraine); and the Company will not directly or indirectly use the proceeds of this offering, or lend, contribute or otherwise make available such proceeds to any subsidiary, or any joint venture partner or other person or entity, for the purpose of financing the activities of or business with any person, or in any country or territory, that currently is the subject of any Sanctions, or in any other manner that will result in a violation by any person (including any person participating in the transaction whether as underwriter, advisor, investor or otherwise) of such Sanctions.

2.29 Cybersecurity. The Company's computer software, computer hardware, firmware, networks, interfaces and related systems (collectively, "*Computer Systems*") are sufficient for the conduct of the Company's business in all material respects as now conducted, and to the knowledge of the Company, there have been no material failures, crashes, security breaches or other adverse events affecting the Computer Systems which has caused material disruption to the business of the Company. The Company complies in all material respects with all privacy laws applicable to the Company.

2.30 Clinical Data and Regulatory Compliance. The preclinical studies and clinical trials being conducted or sponsored by the Company and its subsidiaries, and, to the knowledge of the Company, other studies (collectively, "**studies**") that are described in, or the results of which are referred to in, the SEC Documents were and, if still pending, are being conducted, in all material respects, in accordance with the protocols, procedures and controls designed and approved for such studies and with standard medical and scientific research procedures; each description of the results of such studies is accurate and complete, in all material respects, and fairly presents the data derived from such studies, and the Company and its subsidiaries have no knowledge as of the date hereof of any other studies the results of which are inconsistent with, or otherwise call into question, the results described or referred to in the SEC Documents; the Company and its subsidiaries have made all such filings and obtained all such approvals as may be required for the conduct of the studies by the Food and Drug Administration of the U.S. Department of Health and Human Services or any committee thereof or from any other U.S. or foreign government or drug or medical device regulatory agency, or health care facility Institutional Review Board (collectively, the "**Regulatory Agencies**"), except where the failure to make such filing or obtain such approval would not reasonably be expected, individually or in the aggregate, to result in a Material Adverse Effect; neither the Company nor any of its subsidiaries has received any notice of, or correspondence from, any Regulatory Agency requiring, and, to the knowledge of the Company, no Regulatory Agency has threatened to initiate, the termination, suspension or modification of any clinical trials that are described or referred to in the SEC Documents; and the Company and its subsidiaries have each operated and currently are in compliance, in all material respects, with all applicable law

2.31 FDA. As to each product subject to the jurisdiction of the FDA under the Federal Food, Drug and Cosmetic Act, as amended, and the regulations thereunder ("FDCA") and any other applicable Regulatory Agency that is manufactured, packaged, labeled, tested, distributed, sold, and/or marketed by or on behalf of the Company or its subsidiaries (each such product, a "Pharmaceutical Product"), such Pharmaceutical Product is being manufactured, packaged, labeled, tested, distributed, sold and/or marketed by the Company or its subsidiaries in compliance with all applicable requirements under the FDCA and similar laws, rules and regulations of any applicable Regulatory Agency relating to the registration, investigational use, premarket clearance, licensure, or application approval, good manufacturing practices, good laboratory practices, good clinical practices, product listing, quotas, labeling, advertising, record keeping and filing of reports, except where the failure to be in compliance would not have a Material Adverse Effect. There is no pending, completed or, to the Company's knowledge, threatened, action (including any lawsuit, arbitration, or legal or administrative or regulatory proceeding, charge, complaint, or investigation) against the Company or its subsidiaries, and the Company and its subsidiaries have not received any

notice, warning letter or other communication from the FDA or any other governmental entity, which (i) contests the premarket clearance, licensure, registration, or approval of, the uses of, the distribution of, the manufacturing or packaging of, the testing of, the sale of, or the labeling and promotion of any Pharmaceutical Product, (ii) withdraws its approval of, requests the recall, suspension, or seizure of, or withdraws or orders the withdrawal of advertising or sales promotional materials relating to, any Pharmaceutical Product, (iii) imposes a clinical hold on any clinical investigation by the Company, (iv) enjoins production at any facility of the Company or its subsidiaries or any third party involving a Pharmaceutical Product, (v) enters or proposes to enter into a consent decree of permanent injunction with the Company or its subsidiaries, or (vi) otherwise alleges any violation of any laws, rules or regulations by the Company or its subsidiaries, and which, either individually or in the aggregate, would have a Material Adverse Effect. The properties, business and operations of the Company and its subsidiaries have been and are being conducted in all material respects in accordance with all applicable laws, rules and regulations of the FDA and other Regulatory Agencies. The Company has not been informed by the FDA or other Regulatory Agency that the FDA or such other Regulatory Agency will prohibit the marketing, sale, license or use in the United States of any Pharmaceutical Product. Neither the Company, any of its subsidiaries, nor any of their respective officers, directors, or employees or, to the knowledge of the Company, any of their respective agents or contract manufacturers with respect to any Pharmaceutical Product, has been debarred or excluded or convicted of any crime that could result in a debarment or exclusion under (i) 21 U.S.C. Section 335a or (ii) any similar applicable laws, rules, regulations and policies of an applicable Regulatory Agency. No debarment or exclusionary claims, actions, proceedings or investigations in respect of their business or Pharmaceutical Product are pending or, to the knowledge of the Company, threatened against the Company, any its subsidiaries, nor any of their respective officers, directors, employees, or, to the knowledge of the Company, any agents or contract manufacturers with respect to any Pharmaceutical Product.

2.32 Legality. The legality, validity, enforceability or admissibility into evidence of this Agreement or the Securities in any jurisdiction in which the Company is organized or does business is not dependent upon such document being submitted into, filed or recorded with any court or other authority in any such jurisdiction on or before the date hereof or that any tax, imposition or charge be paid in any such jurisdiction on or in respect of any such document.

2.33 Reserved.

- **2.34 Use of Proceeds.** The Company will use the net proceeds of the sale of the Shares and Pre-Funded Warrants for clinical development activities for its product candidates, and for working capital and other general corporate purposes.
- **2.35** Acknowledgment Regarding Purchasers' Purchase of Shares and Pre-Funded Warrants. The Company acknowledges and agrees that each of the Purchasers is acting solely in the capacity of an arm's length purchaser with respect to this Agreement and the transactions contemplated hereby. The Company further acknowledges that no Purchaser is acting as a financial advisor or fiduciary of the Company (or in any similar capacity with respect to the Company) with respect to this Agreement and the transactions contemplated hereby and any advice given by any Purchaser or any of their respective representatives or agents to the Company in connection with this Agreement and the transactions contemplated hereby is merely incidental to such Purchaser's purchase of the Shares and Pre-Funded Warrants. The Company further represents to each Purchaser that the Company's decision to enter into this Agreement has been based on the independent evaluation of the transactions contemplated hereby by the Company and its representatives.
- **2.36 No Reliance.** The Company has not relied upon the Placement Agents or legal counsel for the Placement Agents for any legal, tax or accounting advice in connection with the offering and sale of the Securities.

- **2.37 No Price Stabilization or Manipulation of Shares; Compliance with Regulation M.** The Company has not taken, directly or indirectly, any action designed to or that would be reasonably expected to cause or result in stabilization or manipulation of the price of the Common Stock or any security of the Company whether to facilitate the sale or resale of any of the Securities or otherwise, and has taken no action which would directly or indirectly violate Regulation M under the Exchange Act.
- **2.38 Never a Shell Company.** The Company has never been an issuer subject to Rule 144(i) under the Securities Act.
- **2.39 Listing and Maintenance Requirements.** The Common Stock is registered pursuant to Section 12(b) or 12(g) of the Exchange Act, and the Company has taken no action designed to, or which to its knowledge is likely to have the effect of, terminating the registration of the Common Stock under the Exchange Act nor has the Company received any notification that the SEC is contemplating terminating such registration. The Common Stock is currently eligible for electronic transfer through the Depository Trust Company or another established clearing corporation and the Company is current in payment of the fees to the Depository Trust Company (or such other established clearing corporation) in connection with such electronic transfer.
- **2.40 No Additional Agreements.** The Company has no other agreements or understandings (including, without limitation, side letters) with any Purchaser to purchase any of the Securities on terms more favorable to such Purchaser than as set forth herein.
- **2.41 The Nasdaq Global Select Market.** The Common Stock is listed on The Nasdaq Global Select Market, and to the Company's knowledge, there are no proceedings to revoke or suspend such listing. Except as disclosed in the SEC Documents, the Company is in material compliance with the requirements of Nasdaq for continued listing of the Common Stock thereon and any other Nasdaq listing and maintenance requirements.
- **2.42 Application of Takeover Protections.** The Company and the Board of Directors have taken all necessary action, if any, in order to render inapplicable any control share acquisition, business combination, poison pill (including any distribution under a rights agreement) or other similar antitakeover provision under the Company's certificate of incorporation (or similar charter documents) or the laws of its state of incorporation that is or would become applicable to the Purchasers as a result of the Purchasers and the Company fulfilling their obligations or exercising their rights under this Agreement, including without limitation as a result of the Company's issuance of the Securities and the Purchasers' ownership of the Securities.
- 2.43 Acknowledgment Regarding Purchaser's Trading Activity. Anything in this Purchase Agreement or elsewhere herein to the contrary notwithstanding, it is understood and acknowledged by the Company that (i) none of the Purchasers has been asked by the Company to agree, nor has any Purchaser agreed, to desist from purchasing or selling, long and/or short, securities of the Company, or "derivative" securities based on securities issued by the Company or to hold the Securities for any specified term, (ii) past or future open market or other transactions by any Purchaser, specifically including, without limitation, short sales or "derivative" transactions, before or after the closing of this or future private placement transactions, may negatively impact the market price of the Company's publicly-traded securities, (iii) any Purchaser, and counter-parties in "derivative" transactions to which any such Purchaser is a party, directly or indirectly, presently may have a "short" position in the Common Stock, and (iv) each Purchaser shall not be deemed to have any affiliation with or control over any arm's length counter-party in any "derivative" transaction. The Company further understands and acknowledges that (y) one or more Purchasers may engage in hedging activities at various times during the period that the Securities are outstanding, and (z) such hedging activities (if any) would reduce the value of the Purchasers' equity interests in the Company at and after the time that the hedging activities are being conducted. The Company acknowledges that such aforementioned hedging activities do not constitute a breach of this Agreement.

- **2.44 Shareholder Rights Plan.** No claim will be made or enforced by the Company or, with the consent of the Company, any other Person, that any Purchaser is an "*Acquiring Person*" under any control share acquisition, business combination, poison pill (including any distribution under a rights agreement) or similar anti-takeover plan or arrangement in effect or hereafter adopted by the Company, or that any Purchaser would be deemed to trigger the provisions of any such plan or arrangement, by virtue of receiving Shares under this Purchase Agreement or under any other agreement between the Company and the Purchasers.
- **2.45 Equal Treatment of Purchasers.** No consideration (including any modification of this Purchase Agreement) shall be offered or paid to any Person to amend or consent to a waiver or modification of any provision of this Agreement unless the same consideration is also offered to all of the parties to this Agreement. For clarification purposes, this provision constitutes a separate right granted to each Purchaser by the Company and negotiated separately by each Purchaser, and is intended for the Company to treat the Purchasers as a class and shall not in any way be construed as the Purchasers acting in concert or as a group with respect to the purchase, disposition or voting of Securities or otherwise.
- **2.46 No Disqualification Events.** With respect to the Securities to be offered and sold hereunder in reliance on Rule 506 under the Securities Act, none of the Company, any of its predecessors, any affiliated issuer, any director, executive officer, other officer of the Company participating in the offering hereunder, any beneficial owner of 20% or more of the Company's outstanding voting equity securities, calculated on the basis of voting power, nor any promoter (as that term is defined in Rule 405 under the Securities Act) connected with the Company in any capacity at the time of sale (each, an "*Issuer Covered Person*") is subject to any of the "Bad Actor" disqualifications described in Rule 506(d)(1)(i) to (viii) under the Securities Act (a "*Disqualification Event*"), except for a Disqualification Event covered by Rule 506(d)(2) or (d)(3). The Company has exercised reasonable care to determine whether any Issuer Covered Person is subject to a Disqualification Event. The Company has complied, to the extent applicable, with its disclosure obligations under Rule 506(e), and has furnished to the Purchasers a copy of any disclosures provided thereunder.

Any certificate signed by an authorized officer or representative of the Company and required to be delivered to the Placement Agents or to counsel for the Placement Agents in connection with this Agreement shall be deemed to be a representation and warranty by the Company to the Placement Agents as to the matters set forth therein.

ARTICLE 3

PURCHASER'S REPRESENTATIONS AND WARRANTIES

Each Purchaser represents and warrants to the Company and the Placement Agents, severally and not jointly, with respect to itself and its purchase hereunder, that as of the Closing (or, in the case of Section 3.1, as of the date of this Agreement):

3.1 Investment Purpose. The Purchaser is purchasing the Securities for its own account and not with a present view toward the public sale or distribution thereof and has no intention of selling or distributing any of such Securities or any arrangement or understanding with any other Persons regarding the sale or distribution of such Securities except in accordance with the provisions of Article 6 with respect to any sale or distribution pursuant to an effective Registration Statement and except as would not result in a violation of the Securities Act. The Purchaser will not, directly or indirectly, offer, sell, pledge, transfer or otherwise dispose of (or solicit any offers to buy, purchase or otherwise acquire or take a pledge of) any of the Securities except in accordance with the provisions of Article 6 with respect to any sale or distribution pursuant to an effective Registration Statement or pursuant to and in accordance with the Securities Act.

3.2 Information. The Purchaser has been furnished with all relevant materials relating to the business, finances and operations of the Company necessary to make an investment decision, and materials relating to the offer and sale of the Securities, that have been requested by the Purchaser, including, without limitation, the SEC Documents, and the Purchaser has had the opportunity to review the SEC Documents. The Purchaser has been afforded the opportunity to ask questions of the Company. Neither such inquiries nor any other investigation conducted by or on behalf of such Purchaser or its representatives or counsel shall modify, amend or affect such Purchaser's right to rely on the truth, accuracy and completeness of the SEC Documents and the Company's representations and warranties contained in the Agreement.

3.3 Acknowledgement of Risk.

- (a) The Purchaser acknowledges and understands that its investment in the Securities involves a significant degree of risk, including, without limitation, (i) the Company has a limited operating history and may require substantial funds in addition to the proceeds from the sale of the Securities; (ii) an investment in the Company is speculative, and only Purchasers who can afford the loss of their entire investment should consider investing in the Company and the Securities; (iii) the Purchaser may not be able to liquidate its investment; (iv) transferability of the Securities is extremely limited; (v) in the event of a disposition of the Securities, the Purchaser could sustain the loss of its entire investment; and (vi) the Company has not paid any dividends on its Common Stock since inception and does not anticipate the payment of dividends in the foreseeable future. Such risks are more fully set forth in the SEC Documents;
- **(b)** The Purchaser is able to bear the economic risk of holding the Securities for an indefinite period, and has knowledge and experience in financial and business matters such that it is capable of evaluating the risks of the investment in the Securities; and
- (c) The Purchaser has been given access to Company documents, records, and other information, and has had adequate opportunity to ask questions of, and receive answers from, the Company's officers, employees, agents, accountants and representatives concerning the Company's business, operations, financial condition, assets, liabilities and all other matters relevant to its investment in the Securities. With respect to all matters relating to this Agreement and the offer and sale of the Securities, the Purchaser has not relied upon or consulted any counsel to the Placement Agent or counsel to the Company.
- **3.4 Governmental Review.** The Purchaser understands that no United States federal or state agency or any other government or governmental agency has passed upon or made any recommendation or endorsement of the Securities or an investment therein.
- **3.5 Transfer or Resale.** The Purchaser understands that:
- (a) the Securities have not been and are not being registered under the Securities Act (other than as contemplated in Article 6) or any applicable state securities laws and, consequently, the Purchaser may have to bear the risk of owning the Securities for an indefinite period of time because the Securities may not be transferred unless (i) the resale of the Securities is registered pursuant to an effective registration statement under the Securities Act, as contemplated in Article 6; (ii) the Purchaser has delivered to the Company an opinion of counsel (in form, substance and scope customary for opinions of counsel in comparable transactions) to the effect that the Securities to be sold or transferred may be sold or transferred pursuant to an exemption from such registration; or (iii) the Securities are sold or transferred pursuant to Rule 144 or another available exemption from the registration requirements of the Securities Act;

- **(b)** any sale of the Securities made in reliance on Rule 144 may be made only in accordance with the terms of Rule 144 and, if Rule 144 is not applicable, any resale of the Securities under circumstances in which the seller (or the Person through whom the sale is made) may be deemed to be an underwriter (as that term is defined in the Securities Act) may require compliance with some other exemption under the Securities Act or the rules and regulations of the SEC thereunder; and
- (c) except as set forth in Article 6, neither the Company nor any other Person is under any obligation to register the resale of the Securities under the Securities Act or any state securities laws or to comply with the terms and conditions of any exemption thereunder.

3.6 Legends.

The Purchaser understands the book entries representing the Securities will bear a restrictive legend in substantially the following form, in addition to any other legend required by applicable state securities laws or as may be appropriate to legend any restrictions on transfer set forth in this Agreement (and a stop-transfer order may be placed against transfer of the book entries for such Securities):

THE SECURITIES REPRESENTED HEREBY HAVE NOT BEEN REGISTERED UNDER THE SECURITIES ACT OF 1933, AS AMENDED, OR THE SECURITIES LAWS OF ANY STATE OF THE UNITED STATES. THE SECURITIES MAY NOT BE SOLD, OFFERED FOR SALE, PLEDGED, HYPOTHECATED, TRANSFERRED OR ASSIGNED IN THE ABSENCE OF AN EFFECTIVE REGISTRATION STATEMENT FOR THE SECURITIES UNDER APPLICABLE SECURITIES LAWS, OR UNLESS OFFERED, SOLD, PLEDGED, HYPOTHECATED OR TRANSFERRED PURSUANT TO AN AVAILABLE EXEMPTION FROM THE REGISTRATION REQUIREMENTS OF THOSE LAWS. THE COMPANY SHALL BE ENTITLED TO REQUIRE AN OPINION OF COUNSEL SATISFACTORY TO THE COMPANY THAT SUCH REGISTRATION IS NOT REQUIRED TO THE EXTENT THAT SUCH OPINION IS REQUIRED PURSUANT TO THAT CERTAIN SECURITIES PURCHASE AGREEMENT UNDER WHICH THE SECURITIES WERE ISSUED.

- **3.7 Authorization; Enforcement.** The Purchaser has the requisite power and authority to enter into this Agreement and to consummate the transactions contemplated hereby. The Purchaser has taken all necessary action to authorize the execution, delivery and performance of this Agreement. Upon the execution and delivery of this Agreement, and assuming due authorization, execution and delivery by the Company, this Agreement shall constitute a valid and binding obligation of the Purchaser enforceable in accordance with its terms, except as enforceability may be limited by applicable bankruptcy, insolvency, reorganization, moratorium or similar laws affecting creditors' and contracting parties' rights generally and except as enforceability may be subject to general principles of equity and except as rights to indemnity and contribution may be limited by state or federal securities laws or public policy underlying such laws.
- **3.8 Residency.** Unless the Purchaser has otherwise notified the Company in writing, the Purchaser is a resident of the jurisdiction set forth immediately below such Purchaser's name on the signature pages hereto.
- **3.9 Short Sales and Confidentiality Prior to the Date Hereof**. Other than consummating the transactions contemplated hereunder, such Purchaser has not, nor has any Person acting on behalf of or pursuant to any understanding with such Purchaser, directly or indirectly executed any purchases or sales, including all "short sales" as defined in Rule 200 of Regulation SHO under the Exchange Act ("*Short Sales*"), of the securities of the Company during the period commencing as of the time that such Purchaser was first contacted by the Company, a Placement

Agent or any other Person regarding the transactions contemplated hereby and ending immediately prior to the date hereof. Notwithstanding the foregoing, (i) in the case of a Purchaser that is a multi-managed investment vehicle whereby separate portfolio managers manage separate portions of such Purchaser's assets and the portfolio managers have no direct knowledge of the investment decisions made by the portfolio managers managing other portions of such Purchaser's assets, the representation set forth above shall only apply with respect to the portion of assets managed by the portfolio manager that made the investment decision to purchase the Securities covered by this Agreement and (ii) in the case of an Purchaser that is affiliated with other funds or investment vehicles or whose investment advisor or sub-advisor that routinely acts on behalf of or pursuant to an understanding with such Purchaser is also an investment advisor or sub-advisor to other funds or investment vehicles, the representation set forth above shall only apply with respect to the personnel of such other funds or investment vehicles or such investment advisor or sub-advisor who had knowledge of the transaction contemplated hereby and not with respect to any personnel who have been effectively walled off by appropriate information barriers. Other than to other Persons party to this Agreement and other than to such Person's affiliate or outside attorney, accountant, auditor or investment advisor only to the extent necessary to permit evaluation of the investment, and the performance of the necessary or required tax, accounting, financial, legal, regulatory or administrative tasks and services and other than as may be required by law or regulation, such Purchaser has maintained the confidentiality of all disclosures made to it in connection with this transaction (including the existence and terms of this transaction). Notwithstanding the foregoing, for the avoidance of doubt, nothing contained herein shall constitute a representation or warranty, or preclude or prohibit any actions, with respect to the identification of, the availability of, or securing of, available shares to borrow in order to effect Short Sales or similar transactions in the future.

- **3.10** Accredited Investor Status. Such Purchaser is an "accredited investor" as that term is defined in Rule 501(a) of Regulation D.
- **3.11 Bad Actor Status.** If the Purchaser is a person listed in the first paragraph of Rule 506(d)(1) with respect to the Company as an "issuer" for purposes of Rule 506 promulgated under the Securities Act, such Purchaser represents that such Purchaser is not a person of the type described in Section 506(d) of Regulation D under the Securities Act that would disqualify the Company from engaging in a transaction pursuant to Section 506 of Regulation D under the Securities Act.
- **3.12 Acknowledgements Regarding Placement Agent.** The Purchaser acknowledges that the Placement Agent is acting as a placement agent on a "best efforts" basis for the Securities being offered hereby and will be compensated by the Company for acting in such capacity. The Purchaser represents that (i) the Purchaser was contacted regarding the sale of the Securities by a Placement Agent or the Company (or an authorized agent or representative thereof) with whom the Purchaser entered into a verbal or written confidentiality agreement and (ii) to its knowledge, no Securities were offered or sold to it by means of any form of general solicitation or general advertising as such terms are used in Regulation D of the Securities Act. The Purchaser confirms, in connection with the issue and purchase of the Securities, the Placement Agent has not acted as the Purchaser's financial advisor or fiduciary.
- **3.13 Beneficial Ownership.** Each Purchaser represents that, to its knowledge, the purchase by such Purchaser of the Securities, as listed on **Schedule 1** hereto, will not result in such Purchaser (individually or together with any other person with whom such Purchaser has identified, or will have identified, itself as part of a "group" in a public filing made with the SEC involving the Company's securities) acquiring, or obtaining the right to acquire, beneficial ownership in excess of 19.999% of the outstanding shares of Common Stock or the voting power of the Company on a post-transaction basis that assumes that the Closing shall have occurred (including assuming the effectiveness of any "blocker" or similar limitations on beneficial ownership contained in the applicable documentation for the Securities). Each Purchaser does not presently intend to, alone or together with others, make a public filing with the SEC to disclose that it has (or that it together with such other persons have) acquired, or obtained the right to acquire,

as a result of the Closing (when added to any other securities of the Company that it or they then own or have the right to acquire), beneficial ownership in excess of 19.999% of the outstanding shares of Common Stock or the voting power of the Company on a post-transaction basis that assumes that the Closing shall have occurred (including assuming the effectiveness of any "blocker" or similar limitations on beneficial ownership contained in the applicable documentation for the Securities).

ARTICLE 4

COVENANTS

- **4.1 Reporting Status.** The shares of Common Stock are registered under Section 12 of the Exchange Act. During the Registration Period, the Company will timely file all documents with the SEC, and the Company will not terminate its status as an issuer required to file reports under the Exchange Act even if the Exchange Act or the rules and regulations thereunder would permit such termination.
- **4.2 Expenses.** Except as otherwise expressly set forth herein, the Company and each Purchaser shall be liable for, and will pay, its own expenses incurred in connection with the negotiation, preparation, execution and delivery of the Transaction Documents. If the Closing is effected, the Company shall, at the Closing, reimburse the reasonable, documented fees and out-of-pocket expenses, including reasonable, documented outside counsel fees, of RA Capital Healthcare Fund, L.P., not to exceed \$75,000.
- **4.3 Financial Information.** The financial statements of the Company to be included in any documents filed with the SEC have been or will be prepared in accordance with U.S. GAAP, consistently applied (except (i) as may be otherwise indicated in such financial statements or the notes thereto, or (ii) in the case of unaudited interim statements, to the extent they may not include footnotes, may be condensed or summary statements or may conform to the SEC's rules and instructions for Quarterly Reports on Form 10-Q), and fairly present or will fairly present in all material respects the financial position of the Company and results of its operations and cash flows as of, and for the periods covered by, such financial statements (subject, in the case of unaudited statements, to normal and recurring year-end audit adjustments).
- **4.4 Securities Laws Disclosure; Publicity.** On or before the Disclosure Time, the Company shall file a Current Report on Form 8-K with the SEC describing the terms of the transactions contemplated by the Transaction Documents and including as exhibits to such Current Report on Form 8-K the Transaction Documents, in the forms required by the Exchange Act. From and after the Disclosure Time, the Company represents to the Purchasers that it shall have publicly disclosed the material terms and conditions of the transactions contemplated by the Transaction Documents.
- **4.5 Non-Public Information.** The Company covenants and agrees that neither it, nor any other Person acting on its behalf will provide any Purchaser or its agents or counsel with any information following the date of this Agreement that constitutes, or the Company reasonably believes constitutes, material non-public information, unless prior thereto such Purchaser has consented in writing to the receipt of such information and agreed in writing with the Company to keep such information confidential. The Company understands and confirms that each Purchaser shall be relying on the foregoing covenant in effecting transactions in securities of the Company, provided that the Purchaser shall remain subject to applicable law. From and after the Disclosure Time, no Purchaser shall be in possession of any material, non-public information received from the Company or any of its officers, directors, employees, agents or any other person acting at the direction of the Company, and each Purchaser shall no longer be subject to any confidentiality or similar obligations under any current agreement, whether written or oral, with the Company, the Placement Agents or any of their respective affiliates, relating to the transactions contemplated by this Agreement.

- **4.6 Blue Sky.** The Company shall, on or before the Closing Date, take such action as the Company shall reasonably determine is necessary in order to obtain an exemption for, or to qualify the Securities for, sale to the Purchasers at the Closing occurring on the Closing Date pursuant to this Agreement under applicable securities or "*Blue Sky*" laws of the states of the United States, and shall provide promptly upon the request of any Purchasers evidence of any such action so taken.
- **4.7 Reservation of Common Stock.** The Company shall reserve and keep available at all times during which Pre-Funded Warrants remain exercisable, free of preemptive rights, a sufficient number of shares of Common Stock for the purpose of enabling the Company to issue the Warrant Shares.
- **4.8 Listing of Common Stock.** The Company hereby agrees to use best efforts to maintain the listing of the Common Stock on Nasdaq, and in advance of the Closing, the Company shall apply to list all of the Shares and Warrant Shares on Nasdaq and promptly secure the listing of all of the Shares and Warrant Shares on Nasdaq. The Company further agrees, if the Company applies to have the shares of Common Stock on any other Trading Market, it will then include in such application all of the Shares and Warrant Shares, and will take such other action as is necessary to cause all of the Shares and Warrant Shares to be listed or quoted on such other Trading Market as promptly as possible. The Company will then take all action reasonably necessary to continue the listing and trading of its shares of Common Stock on such Trading Market and will comply in all respects with the Company's reporting, filing and other obligations under the bylaws or rules of such Trading Market. The Company agrees to maintain the eligibility of the shares of Common Stock for electronic transfer through the Depository Trust Company or another established clearing corporation, including, without limitation, by timely payment of fees to the Depository Trust Company or such other established clearing corporation with such electronic transfer. Nothing in this Section 4.8 shall be construed so as to limit the Company's ability to engage in a strategic or financial material transaction approved by the Board of Directors, the result of which is that the Company is taken private or acquired by another company and its shares are no longer listed on any Trading Market.
- **4.9 Non-Disclosure.** The Company shall not (and shall cause its officers, directors, employees and agents not to) publicly disclose the name of any Purchaser or any affiliate or investment adviser of Purchaser or any affiliate or investment adviser of Purchaser without the prior written consent (including by e-mail) of such Purchaser (i) in any press release or marketing materials, or (ii) in any filing with the SEC or any regulatory agency or trading market, except with respect to clause (ii) (A) as required by the federal securities laws, rules or regulations, or (B) to the extent such disclosure is required by other laws, rules or regulations, at the request of the staff of the SEC or regulatory agency or under regulations of any national securities exchange on which the Company's securities are listed for trading, in which case the Company shall provide such Purchaser with prompt prior notice of such requirement to the Purchaser and consult with the Purchaser on content and timing prior to any such disclosure.
- **4.10 Legend Removal.** To the extent the resale of any issued Shares or Warrant Shares is registered under the Securities Act pursuant to an effective Registration Statement, the Company agrees to promptly (i) authorize the removal of the legend set forth in Section 3.6 and any other legend not required by applicable law from such Shares or Warrant Shares, (ii) cause the Transfer Agent to issue such Shares or Warrant Shares without such legends to the holders thereof by electronic delivery at the applicable balance account at the Depository Trust Company upon surrender of any share certificates evidencing such Shares or Warrant Shares and (iii) if required by the Transfer Agent, cause its counsel to issue a legal opinion to effect the removal of any restrictive legends and provide all other opinions as may be reasonably required by the transfer agent in connection with the removal of legends (all such opinions "*TA Legal Opinions*"). The Company's obligation to remove legends under this Section 4.10 may be conditioned upon the Purchaser providing a certification in the form of Exhibit B.

The Purchaser may request that the Company remove, and the Company agrees to authorize, including through the issuance of TA Legal Opinions by the Company's counsel, the removal of any legend from any Shares or Warrant Shares issued to such Purchaser (i) within two Trading Days following any sale, or certification by a Purchaser of the expected sale, of such Shares or Warrant Shares pursuant to Rule 144, (ii) if such Shares or Warrant Shares are eligible for sale under Rule 144 following the expiration of the holding requirement under subparagraphs (b)(1)(i) and (d) thereof and the Purchaser is not an affiliate of the Company, in each case following receipt from the Purchaser of an appropriate certification to such effect or (iii) following the time that the Registration Statement is declared effective and while it remains effective. Following the time a legend is no longer required for the Shares or Warrant Shares under this Section 4.10, the Company will, no later than two Trading Days following the delivery by a Purchaser to the Company or the Transfer Agent of a legended certificate representing such securities (if any) (or a request for legend removal, in the case of the Shares or Warrant Shares issued in book-entry form) and appropriate certifications that the applicable requirements have been satisfied (the "Securities Delivery Date"), deliver or cause to be delivered to such Purchaser evidence of book entry positions representing such securities that is free from all restrictive and other legends or, in the case of Shares or Warrant Shares, if requested by Purchaser, by crediting such Shares or Warrant Shares to the account of the Purchaser or its prime broker or other designee with The Depository Trust Company through its Deposit or Withdrawal at Custodian system ("DWAC") if the Company is then a participant in such system ("DWAC Delivery"); if the Company fails for any reason to deliver Shares or Warrant Shares via DWAC Delivery (if the Company is then a participant in DWAC) to a Purchaser as required by this Section 4.10 (other than a failure caused by incorrect or incomplete information provided by Purchaser to the Company), and if after such Securities Delivery Date such Purchaser is required to or otherwise purchases (in an open market transaction or otherwise), shares of Common Stock to deliver in satisfaction of a sale by such Purchaser of the Shares or Warrant Shares which such Purchaser was entitled to receive relating to such Securities Delivery Date (a "Buy-In"), then the Company shall pay in cash to such Purchaser (in addition to any other remedies available to or elected by such Purchaser) the amount by which (x) such Purchaser's total purchase price (including any brokerage commissions) for the shares of Common Stock so purchased exceeds (y) the product of (1) the lesser of the (a) the number of shares of Common Stock so purchased and (b) the aggregate number of Shares or Warrant Shares that such Purchaser was entitled to receive for the Securities Delivery Date multiplied by (2) the actual sale price at which the sell order giving rise to such purchase obligation was executed (including any brokerage commissions). For example, if a Purchaser purchases shares of Common Stock having a total purchase price of \$11,000 to cover a Buy-In with respect to Shares or Warrant Shares that were not delivered via DWAC Delivery by the Securities Delivery Date with respect to which the actual sale price (including any brokerage commissions) giving rise to such purchase obligation was a total of \$10,000, the Company shall be required to pay such Purchaser \$1,000. The Purchaser shall provide the Company written notice, within three (3) Business Days after the occurrence of a Buy-In, indicating the amounts payable to such Purchaser in respect of such Buy-In together with applicable confirmations and other evidence reasonably requested by the Company. Nothing herein shall limit a Purchaser's right to pursue any other remedies available to it hereunder, at law or in equity including, without limitation, a decree of specific performance and/or injunctive relief with respect to the Company's failure to timely deliver the Shares or Warrant Shares via DWAC Delivery as required pursuant to the terms hereof.

4.11 Authorized Share Increase. The Company shall obtain approval from its stockholders no later than December 31, 2023 to increase the shares of the Company's authorized shares to permit the issuance of the Warrant Shares upon the exercise of the Pre-Funded Warrants.

ARTICLE 5

CONDITIONS TO CLOSING

- **5.1 Conditions to Obligations of the Company.** The Company's obligation to complete the purchase and sale of the Shares and Pre-Funded Warrants to each Purchaser at the Closing is subject to the waiver by the Company or fulfillment as of the Closing Date of the following conditions:
- (a) Receipt of Funds. The Company shall have received immediately available funds in the full amount of the "Aggregate Purchase Price (Wire Amount)" for the Shares and Pre-Funded Warrants being purchased at the Closing as set forth opposite such Purchaser's name on **Schedule 1** hereto.
- **(b) Representations and Warranties.** The representations and warranties made by each Purchaser in Article 3 shall be true and correct in all material respects as of the Closing Date.
- **(c) Covenants.** All covenants, agreements and conditions contained in this Agreement to be performed by the Purchasers on or prior to the Closing Date shall have been performed or complied with in all material respects.
- (d) Blue Sky. The Company shall have obtained all necessary blue sky law permits and qualifications, or secured exemptions therefrom, required by any state for the offer and sale of the Securities.
- **(e) Nasdaq Qualification.** The Shares and the Warrant Shares shall be duly authorized for listing by Nasdaq, subject to official notice of issuance, to the extent required by the rules of Nasdaq.
- **(f) Absence of Litigation.** No proceeding challenging this Agreement or the transactions contemplated hereby, or seeking to prohibit, alter, prevent or materially delay the Closing, shall have been instituted or be pending before any court, arbitrator, governmental body, agency or official.
- **(g) No Governmental Prohibition.** The sale of the Shares and Pre-Funded Warrants by the Company shall not be prohibited by any law or governmental order or regulation.
- **5.2 Conditions to Purchasers' Obligations.** Each Purchaser's obligation to complete the purchase and sale of the Shares and Pre-Funded Warrants is subject to the waiver by such Purchaser or fulfillment as of the Closing Date of the following conditions:
- (a) Representations and Warranties. The representations and warranties made by the Company in Article 2 shall be true and correct in all respects when made and as of the Closing Date.
- **(b) Covenants.** All covenants, agreements and conditions contained in this Agreement to be performed by the Company on or prior to the Closing Date shall have been performed or complied with in all material respects.
- **(c) Blue Sky.** The Company shall have obtained all necessary blue sky law permits and qualifications, or secured exemptions therefrom, required by any state or foreign or other jurisdiction for the offer and sale of the Securities.
- **(d) Nasdaq Qualification.** The Shares and the Warrant Shares shall be duly authorized for listing by Nasdaq, subject to official notice of issuance, to the extent required by the rules of Nasdaq.
- **(e) No Governmental Prohibition.** The sale of the Shares and Pre-Funded Warrants by the Company shall not be prohibited by any law or governmental order or regulation.
- **(f) No Material Adverse Effect.** There shall not have occurred any Material Adverse Effect, or any development that could reasonably be expected to result in a Material Adverse Effect, as of the Closing.
- **(g) Transfer Agent Instructions.** The Company shall have delivered to the Transfer Agent irrevocable instructions to issue to such Purchaser or in such nominee name(s) as designated by such Purchaser in writing such number of Securities set forth opposite such Purchaser's name on Schedule 1 hereto.

- (h) Absence of Litigation. No writ, order, stay, stipulation, determination, judgment or injunction (preliminary or permanent), award or decree of or by any court, or judge, justice or magistrate, including any bankruptcy court or judge, or any order, executive order, decree, statute, rule or regulation of or by any governmental authority, shall have been issued, and no action or proceeding shall have been instituted by any governmental authority, enjoining, preventing, or restraining, or seeking to enjoin, prevent or restrain, or which has effect of making the consummation of the transactions contemplated hereby illegal or otherwise prohibiting any of the transactions contemplated hereby, and no action or proceeding seeking to impose such injunction, prohibition or restrain shall have been, to the Company's knowledge, threatened against the Company.
- (i) Authorizations and Consents. The Company shall have obtained any and all authorizations, consents, permits, approvals, registrations and waivers necessary for the consummation of the purchase and sale of the Securities and the consummation of the other transactions contemplated by this Agreement, all of which shall be in full force and effect.
- (j) No Stop Orders. No stop order shall have been imposed by Nasdaq, the SEC or any other governmental or regulatory body with respect to public trading in the Common Stock.
- **(k) No Other Agreements.** The Company shall not have entered into any securities purchase agreement, subscription agreement, side letter or similar agreement or understanding with any other Purchaser or other person in connection with the transactions contemplated herein, and no Purchaser shall have received terms in respect of its purchase of any of the Securities that are more favorable than those of any other Purchaser.
- **(l) Legal Opinion.** The Company shall have caused its counsel to issue legal opinions to the Purchasers and to the Placement Agent in form and substance reasonably acceptable to each Purchaser and to the Placement Agent.
- **(m) Compliance Certificate.** The Chief Executive Officer of the Company shall have delivered to each Purchaser dated as of the Closing Date a certificate in form and substance reasonably acceptable to each Purchaser certifying that the conditions specified in Section 5.2 have been fulfilled.
- (n) Secretary's Certificate. The Secretary of the Company shall have delivered to each Purchaser at the Closing Date in form and substance reasonably acceptable to each Purchaser a certificate certifying (i) the Certificate of Incorporation of the Company, (ii) the Bylaws of the Company, (iii) resolutions of the Board of Directors (or an authorized committee thereof) approving the Transaction Documents and the transactions contemplated thereby and (iv) the good standing of the Company in the states of Delaware and Texas, as evidenced by good standing certificates from such states dated within five Business Days of the Closing Date.
- **(o) Beneficial Ownership Limitation.** At Closing, the Company shall not issue or sell, and the Purchaser shall not purchase or acquire, any Securities under this Agreement which, when aggregated with all Securities then beneficially owned by the Purchaser and its Attribution Parties, would result in the beneficial ownership by the Purchaser of more than its Beneficial Ownership Limitation specified on **Schedule 1** immediately after giving effect to the Closing and the application of the Beneficial Ownership Limitations of all other Purchasers hereunder.
- **(p) Closing.** The Closing of the purchase of Securities by each Purchaser shall occur substantially concurrently. If required by the Purchaser pursuant to Section 1.1(b), the Company shall have delivered to the Purchaser evidence of the issuance of the Shares in the name of the Purchaser (or its nominee as directed by such Purchaser in its delivery instructions) dated as of the Closing Date prior to such Purchaser's payment of its Aggregate Subscription Amount.

ARTICLE 6

REGISTRATION RIGHTS

6.1 As soon as reasonably practicable, but in no event later than 15 days after the Closing Date (the "Filing Date"), the Company shall file a registration statement covering the resale of the Registrable Securities with the SEC for an offering to be made on a continuous basis pursuant to Rule 415, or if Rule 415 is not available for offers and sales of the Registrable Securities, by such other means of distribution of Registrable Securities as the Holders of a majority of such Registrable Securities may reasonably specify (the "Initial Registration Statement"). The Initial Registration Statement shall be on Form S-3 (except if the Company is ineligible to register for resale the Registrable Securities on Form S-3, in which case such registration shall be on Form S-1) and the Company shall have the Initial Registration Statement declared effective, and any other qualifications or compliances (including, without limitation, the execution of any required undertaking to file post-effective amendments, appropriate qualifications or exemptions under applicable blue sky or other state securities laws and appropriate compliance with applicable securities laws, requirements or regulations), as promptly as possible after the filing thereof, but in any event prior to the date which is five days after the receipt of a notification of no-review in the event of no review by the SEC, or 60 days after the Filing Date in the event of a review by the SEC (the "Effectiveness Date"). For purposes of clarification, any failure by the Company to file the Initial Registration Statement by the Filing Date or to have such Registration Statement declared effective within such five days after the notification of no-review or 60 days after the Filing Date, as applicable, shall not otherwise relieve the Company of its obligations to file or have the Initial Registration Statement declared effective as set forth above in this Section 6.1. In the event the SEC informs the Company that all of the Registrable Securities cannot, as a result of the application of Rule 415, be registered for resale as a secondary offering on a single registration statement, the Company agrees to promptly (i) inform each of the Holders thereof, (ii) use its best efforts to file amendments to the Initial Registration Statement as required by the SEC and/or (iii) withdraw the Initial Registration Statement and file a new registration statement (a "New Registration Statement"), in either case covering the maximum number of Registrable Securities permitted to be registered by the SEC, on Form S-3 or, if the Company is ineligible to register for resale the Registrable Securities on Form S-3, Form S-1; provided, however, that prior to filing such amendment or New Registration Statement, the Company shall be obligated to use its best efforts to advocate with the SEC for the registration of all of the Registrable Securities. In the event the Company amends the Initial Registration Statement or files a New Registration Statement, as the case may be, under clauses (ii) or (iii) above, the Company will use its best efforts to file with the SEC, within 30 days following the date allowed by the SEC, one or more registration statements on Form S-3 or, if the Company is ineligible to register for resale the Registrable Securities on Form S-3, Form S-1, to register for resale those Registrable Securities that were not registered for resale on the Initial Registration Statement, as amended, or the New Registration Statement (the "Remainder Registration Statements"). If the SEC limits the number of Registrable Securities permitted to be registered on a particular Registration Statement (and notwithstanding that the Company used diligent efforts to advocate with the SEC for the registration of all or a greater number of Registrable Securities), any required cutback of Registrable Securities (such Registrable Securities so cut back, the "Cut Back Securities") shall be applied to the Purchasers pro rata in accordance with the number of such Registrable Securities sought to be included in such Registration Statement by reference to the amount of Registrable Securities set forth opposite such Purchaser's name on Schedule 1 (and in the case of a subsequent transfer, the initial Purchaser's transferee) relative to the aggregate amount of all Registrable Securities. In no event shall any Purchaser be identified as a statutory underwriter in the Registration Statement unless in response to a comment or request from the staff of the SEC or another regulatory agency; provided, that if the SEC requests that a Purchaser be identified as a statutory underwriter in the Registration Statement, such Purchaser will have an opportunity to withdraw from the Registration Statement.

6.2 All Registration Expenses incurred in connection with any registration, qualification, exemption or compliance pursuant to Section 6.1 shall be borne by the Company. All Selling Expenses relating to the sale of securities registered by or on behalf of a Holder shall be borne by such Holder.

6.3 The Company further agrees that, in the event that (i) the Initial Registration Statement has not been filed with the SEC by the Filing Date, (ii) the Initial Registration Statement or the New Registration Statement, as applicable, has not been declared effective by the SEC by the Effectiveness Date, (iii) after such Registration Statement is declared effective by the SEC, is suspended by the Company or ceases to remain continuously effective as to all Registrable Securities for which it is required to be effective, other than, in each case, within the time period(s) permitted by Section 6.7(b), or (iv) after the Filing Date, and only in the event a Registration Statement is not effective or available to sell the Registrable Securities, the Company fails to file with the SEC any required reports under Section 13 or 15(d) of the Exchange Act such that it is not in compliance with Rule 144(c)(1), as a result of which the Purchasers who are not affiliates of the Company are unable to sell Shares and/or Warrant Shares without restriction under Rule 144 (each such event referred to in clauses (i), (ii), (iii) and (iv), (a "Registration Default")), the Company shall pay to each Purchaser 1.0% of such Purchaser's Subscription Amount as set forth on Schedule 1 hereto of such Purchaser's Registrable Securities on the occurrence of such Registration Default and for each 20-day period following such Registration Default (a "Penalty Period") (provided the payment amount shall increase by 1.0% of such Purchaser's Subscription Amount as set forth on **Schedule 1** hereto for each subsequent 20-day period following the initial 20-day period), or pro rata for any portion thereof, during which the Registration Default remains uncured; provided, however, that if a Purchaser fails to provide the Company with any information that is required to be provided in such Registration Statement with respect to such Purchaser as set forth herein, then the commencement of the Penalty Period described above shall be extended until two Business Days with respect to such Purchaser following the date of receipt by the Company of such required information from such Purchaser; and provided, further, that in no event shall the Company be required hereunder to pay to any Purchaser pursuant to this Agreement more than 3.0% of such Purchaser's Subscription Amount of such Purchaser's Registrable Securities in any Penalty Period and in no event shall the Company be required hereunder to pay to any Purchaser pursuant to this Agreement an aggregate amount that exceeds 10.0% of the Subscription Amount paid by such Purchaser for such Purchaser's Registrable Securities. The Company shall deliver said cash payment to the Purchaser by the fifth Business Day after the end of such Penalty Period. Notwithstanding any other provision of this Section 6.3, no Registration Default as to the Cut Back Securities shall be deemed to have occurred until the date that is 30 days following the date on which the SEC permits the Cut Back Securities to be registered, and the payment of any penalty pursuant to this Section 6.3 shall be calculated to apply only to the percentage of Registrable Securities which are permitted by the SEC to be registered within the timeframes provided for in this Agreement.

6.4 In the case of the registration, qualification, exemption or compliance effected by the Company pursuant to this Agreement, the Company shall, upon reasonable request, inform each Holder as to the status of such registration, qualification, exemption and compliance. At its expense the Company shall:

(a) except for such times as the Company is permitted hereunder to suspend the use of the prospectus forming part of a Registration Statement, use its best efforts to keep such registration, and any qualification, exemption or compliance under state securities laws which the Company determines to obtain, continuously effective with respect to a Holder, and to keep the applicable Registration Statement free of any material misstatements or omissions, until the earlier of the following: (i) the third anniversary of the date the initial Registration Statement is declared effective or (ii) the date all Shares and Warrant Shares (assuming cashless exercise) held by or issuable to such Holder may be sold under Rule 144 without being subject to any volume, manner of sale or publicly available information requirements. The period of time during which the Company is required hereunder to keep a Registration Statement effective is referred to herein as the "Registration Period."

- **(b)** advise the Holders within two Business Days:
- (i) when a Registration Statement or any amendment thereto has been filed with the SEC and when such Registration Statement or any post-effective amendment thereto has become effective;
- (ii) of any request by the SEC for amendments or supplements to any Registration Statement or the prospectus included therein or for additional information;
- (iii) of the issuance by the SEC of any stop order suspending the effectiveness of any Registration Statement or the initiation of any proceedings for such purpose and the Company shall use commercially reasonable efforts to prevent the issuance of any stop order or other suspension of effectiveness of the Registration Statement, or the suspension of the qualification of any of the Registrable Securities for sale in any jurisdiction and, if such an order or suspension is issued, to obtain the withdrawal of such order or suspension at the earliest possible moment and to notify the Purchasers of the issuance of such order and the resolution thereof or its receipt of notice of the initiation or threat of any proceeding for such purpose;
- (iv) of the receipt by the Company of any notification with respect to the suspension of the qualification of the Registrable Securities included therein for sale in any jurisdiction or the initiation or threatening of any proceeding for such purpose; and
- (v) of the occurrence of any event that requires the making of any changes in any Registration Statement or prospectus so that, as of such date, the statements therein are not misleading and do not omit to state a material fact required to be stated therein or necessary to make the statements therein (in the case of a prospectus, in the light of the circumstances under which they were made) not misleading;
- (c) use its commercially reasonable efforts to obtain the withdrawal of any order suspending the effectiveness of any Registration Statement as soon as reasonably practicable;
- (d) if a Holder so requests in writing, promptly furnish to each such Holder, without charge, at least one copy of each Registration Statement and each post-effective amendment thereto, including financial statements and schedules, and, if explicitly requested, all exhibits in the form filed with the SEC;
- (e) during the Registration Period, promptly deliver to each such Holder, without charge, as many copies of each prospectus included in a Registration Statement and any amendment or supplement thereto as such Holder may reasonably request in writing; and the Company consents to the use, consistent with the provisions hereof, of the prospectus or any amendment or supplement thereto by each of the selling Holders of Registrable Securities in connection with the offering and sale of the Registrable Securities covered by a prospectus or any amendment or supplement thereto;
- (f) during the Registration Period, if a Holder so requests in writing, deliver to each Holder, without charge, (i) one copy of the following documents, other than those documents available via EDGAR: (A) its annual report to its shareholders, if any (which annual report shall contain financial statements audited in accordance with generally accepted accounting principles in the United States by a firm of certified public accountants of recognized standing), (B) if not included in substance in its annual report to shareholders, its annual report on Form 10-K (or similar form), (C) its definitive proxy statement with respect to its annual meeting of shareholders, (D) each of its quarterly reports to its shareholders, and, if not included in substance in its quarterly reports to shareholders, its quarterly report on Form 10-Q (or similar form), and (E) a copy of each full Registration Statement (the foregoing, in each case, excluding exhibits); and (ii) if explicitly requested, all exhibits excluded by the parenthetical to the immediately preceding clause (E);

- (g) prior to any public offering of Registrable Securities pursuant to any Registration Statement, promptly take such actions as may be necessary to register or qualify or obtain an exemption for offer and sale under the securities or blue sky laws of such United States jurisdictions as any such Holders reasonably request in writing, provided that the Company shall not for any such purpose be required to qualify generally to transact business as a foreign corporation in any jurisdiction where it is not so qualified or to consent to general service of process in any such jurisdiction, and do any and all other acts or things reasonably necessary or advisable to enable the offer and sale in such jurisdictions of the Registrable Securities covered by any such Registration Statement;
- (h) upon the occurrence of any event contemplated by Section 6.4(b)(v) above, except for such times as the Company is permitted hereunder to suspend the use of a prospectus forming part of a Registration Statement, the Company shall use its best efforts to as soon as reasonably practicable prepare a post-effective amendment to such Registration Statement or a supplement to the related prospectus, or file any other required document so that, as thereafter delivered to purchasers of the Registrable Securities included therein, such prospectus will not include any untrue statement of a material fact or omit to state any material fact necessary to make the statements therein, in the light of the circumstances under which they were made, not misleading;
- (i) otherwise use its commercially reasonable efforts to comply in all material respects with all applicable rules and regulations of the SEC which could affect the sale of the Registrable Securities;
- (j) use its commercially reasonable efforts to cause all Registrable Securities to be listed on each securities exchange or market, if any, on which equity securities issued by the Company have been listed;
- (k) use its commercially reasonable efforts to take all other steps necessary to effect the registration of the Registrable Securities contemplated hereby and to enable the Holders to sell Registrable Securities under Rule 144;
- (I) provide to each Purchaser and its representatives, if requested, the opportunity to conduct a reasonable inquiry of the Company's financial and other records during normal business hours and make available its officers, directors and employees for questions regarding information which such Purchaser may reasonably request in order to fulfill any due diligence obligation on its part; and
- (m) upon request of a Purchaser, permit counsel for the Purchasers to review any Registration Statement and all amendments and supplements thereto (other than supplements to a Registration Statement on Form S-1 solely for the purpose of incorporating other filings with the SEC into such Registration Statement and other than an amendment to a Registration Statement on Form S-1 for the purpose of converting such Registration Statement into a Registration Statement on Form S-3), within five Business Days prior to the filing thereof with the SEC; *provided* that each Purchaser shall have an opportunity to review all disclosures in which it is named prior to filing;
- (n) permit each Purchaser to review the information contemplated to be included in the Selling Shareholder's section of any Registration Statement relating to such Purchaser within five Business Days prior to the filing thereof with the SEC;

provided that, in the case of clauses (l), (m) and (n) above, the Company shall not be required (A) to delay the filing of any Registration Statement or any amendment or supplement thereto as a result of any ongoing diligence inquiry by or on behalf of a Holder or to incorporate any comments to any Registration Statement or any amendment or supplement thereto by or on behalf of a Holder if such inquiry or comments would require a delay in the filing of such Registration Statement, amendment or supplement, as the case may be, or (B) to provide, and shall not provide, any Purchaser or its representatives with material, non-public information unless such Purchaser agrees to receive such information and enters into a written confidentiality agreement with the Company in a form reasonably acceptable to the Company; and provided further, that, in the case of clause (m) above, the Company shall pay the reasonable fees and expenses of outside counsel to RA Capital Healthcare Fund, L.P. in an amount not to exceed, in the aggregate, \$20,000 (it being understood that a Purchaser may request, at its own expense, that its counsel be provided information as set forth in clause (m) above).

6.5 The Holders shall have no right to take any action to restrain, enjoin or otherwise delay any registration pursuant to Section 6.1 hereof as a result of any controversy that may arise with respect to the interpretation or implementation of this Agreement.

6.6 (a) To the extent permitted by law, the Company shall indemnify, defend and hold harmless each Purchaser or Holder or Affiliates and Attribution Parties, any other Person controlling such Purchaser or Holder within the meaning of Section 15 of the Securities Act, and each of their respective directors, managers, portfolio managers, investment advisors, officers, principals, partners, members, equityholders (regardless of whether such interest are held directly or indirectly), trustees, controlling persons, predecessors, successors and assigns, subsidiaries, employees, agents, advisors, attorneys and representatives (each a "Company Indemnified Party"), with respect to which any registration that has been effected pursuant to this Agreement, from and against all claims, losses, damages, expenses (including reasonable and documented fees and disbursements of external counsel) and liabilities (or action, suit, proceedings, inquiry or investigation in respect thereof), and shall reimburse each Company Indemnified Party upon demand for reasonable and documented fees and expenses of counsel and other expenses incurred by it in connection with investigating, preparing to defend or defending, or providing evidence in or preparing to serve or serving as a witness with respect thereto, including any of the foregoing incurred in settlement of any litigation, commenced or threatened (subject to Section 6.6(c) below), arising out of or based on (a) this Agreement (including as a result of any breach or inaccuracy of any representation, warranty or covenant of the Company herein) or (b) any untrue statement (or alleged untrue statement) of a material fact contained in any Registration Statement, prospectus, any amendment thereof or supplement thereto, or other document incident to any such registration, qualification or compliance or based on any omission (or alleged omission) to state therein a material fact required to be stated therein or necessary to make the statements therein not misleading, in light of the circumstances in which they were made, or any violation by the Company of any rule or regulation promulgated under the Securities Act applicable to the Company and relating to any action or inaction required of the Company in connection with any such registration, qualification or compliance, and will reimburse each Company Indemnified Party, for reasonable legal and other out-of-pocket expenses reasonably incurred in connection with investigating or defending any such claim, loss, damage, liability or action as incurred; provided that the Company will not be liable in any such case to the extent that any untrue statement or omission or allegation thereof is made in reliance upon and in conformity with written information furnished to the Company by or on behalf of such Holder for use in preparation of any Registration Statement, prospectus, amendment or supplement; provided further, that the Company will not be liable in any such case where the claim, loss, damage or liability arises out of or is related to the failure of such Holder to comply with the covenants and agreements contained in this Agreement respecting sales of Registrable Securities which gave rise to such indemnification obligation. No Company Indemnified Party shall have any liability (whether direct or indirect, in contract, tort or otherwise) to the Company, for or in connection with the transactions contemplated hereby, except to the extent such liability results from such Company Indemnified Party's bad faith, actual fraud, gross negligence or willful misconduct.

(b) Each Holder will severally, and not jointly, indemnify the Company, each of its directors and officers, and each Person who controls the Company within the meaning of Section 15 of the Securities Act, against all claims, losses, damages and liabilities (or actions in respect thereof), including any of the foregoing incurred in settlement of any litigation, commenced or threatened (subject to Section 6.6(c) below), arising out of or based on any untrue statement (or alleged untrue statement) of a material fact contained in any Registration Statement, prospectus, or any amendment or supplement thereof, incident to any such registration, or based on any omission (or alleged omission) to state therein a material fact required to be stated therein or necessary to make the statements therein not misleading, in light of the circumstances in which they were made, and will reimburse the Company, such directors and officers, and each Person controlling the Company for reasonable legal and any other expenses

reasonably incurred in connection with investigating or defending any such claim, loss, damage, liability or action as incurred, in each case to the extent, but only to the extent, that such untrue statement or omission or allegation thereof is contained in written information furnished to the Company by or on behalf of the Holder expressly for inclusion in any Registration Statement, prospectus, amendment or supplement. Notwithstanding the foregoing, a Holder's aggregate liability pursuant to this subsection (b) and subsection (d) shall be limited to the net amount (net of all expenses paid by such Holder in connection with any claim relating to this Section 6.6 and the amount of any damages such Holder has otherwise been required to pay by reason of such untrue statement or omission) actually received by the Holder from the sale of the Registrable Securities included in the Registration Statement giving rise to such indemnification obligations.

- (c) Each party entitled to indemnification under this Section 6.6 (the "Indemnified Party") shall give notice to the party required to provide indemnification (the "Indemnifying Party") promptly after such Indemnified Party has actual knowledge of any claim as to which indemnity may be sought, and shall permit the Indemnifying Party (at its expense) to assume the defense of any such claim or any litigation resulting therefrom, provided that counsel for the Indemnifying Party, who shall conduct the defense of such claim or litigation, shall be approved by the Indemnified Party (whose approval shall not unreasonably be withheld), and the Indemnified Party may participate in such defense at such Indemnified Party's expense, and provided further that the failure of any Indemnified Party to give notice as provided herein shall not relieve the Indemnifying Party of its obligations under this Agreement, unless such failure is materially prejudicial to the Indemnifying Party in defending such claim or litigation. An Indemnifying Party shall not be liable for any settlement of an action or claim effected without its written consent (which consent will not be unreasonably withheld). No Indemnifying Party, in its defense of any such claim or litigation, shall, except with the consent of each Indemnified Party, consent to entry of any judgment or enter into any settlement unless such judgment or settlement (a) includes as an explicit and unconditional term thereof the giving by the claimant or plaintiff to such Indemnified Party of a release from all liability in respect to such claim or litigation, (b) does not include a statement as to or an admission of fault, culpability, or a failure to act by or on behalf of such Indemnified Party and (c) imposes no liability or obligation on such Indemnified Party. No Company Indemnified Party shall be liable for any damages arising from the use by unauthorized persons of any information made available to the Company Indemnified Parties by or on behalf of the Company or its represen
- (d) If the indemnification provided for in this Section 6.6 is held by a court of competent jurisdiction to be unavailable to an Indemnified Party with respect to any loss, liability, claim, damage or expense referred to therein, then the Indemnifying Party, in lieu of indemnifying such Indemnified Party thereunder, shall contribute to the amount paid or payable by such Indemnified Party as a result of such loss, liability, claim, damage or expense in such proportion as is appropriate to reflect the relative fault of the Indemnifying Party on the one hand and of the Indemnified Party on the other in connection with the actions, statements or omissions which resulted in such loss, liability, claim, damage or expense as well as any other relevant equitable considerations. The relative fault of the Indemnifying Party and of the Indemnified Party shall be determined by reference to, among other things, whether the untrue or alleged untrue statement of a material fact or the omission to state a material fact relates to information supplied by the Indemnifying Party or by the Indemnified Party and the parties' relative intent, knowledge, access to information and opportunity to correct or prevent such statement or omission.
- **6.7 (a)** Each Holder agrees that, upon receipt of any notice from the Company of the happening of any event requiring the preparation of a supplement or amendment to a prospectus relating to Registrable Securities so that, as thereafter delivered to the Holders, such prospectus shall not contain an untrue statement of a material fact or omit to state any material fact required to be stated therein or necessary to make the statements therein not misleading (provided that in no event shall such notice contain any material, nonpublic information), each Holder will forthwith discontinue disposition of Registrable Securities pursuant to a Registration Statement and prospectus contemplated by Section 6.1 until its receipt of copies of the supplemented or amended prospectus from the Company and, if so directed by the Company, each Holder shall deliver to the Company all copies, other than permanent file copies then in such Holder's possession, of the prospectus covering such Registrable Securities current at the time of receipt of such notice.

- **(b)** Each Holder shall suspend, upon written notice from the Company, any disposition of Registrable Securities pursuant to any Registration Statement and prospectus contemplated by Section 6.1 during no more than two periods of no more than 30 consecutive calendar days each during any 12-month period to the extent that such suspension (i) is required under Section 6.7(a) or (ii) negotiation or consummation of a transaction by the Company is pending or an event has occurred, which negotiation, consummation or event, the Board of Directors of the Company reasonably believes, upon advice of legal counsel, would require additional disclosure by the Company in the Registration Statement of material information that the Company has a bona fide business purpose for preserving as confidential and the non-disclosure of which in the Registration Statement would be expected, in the reasonable determination of the Board of Directors, upon the advice of legal counsel, to cause the Registration Statement to fail to comply with applicable disclosure requirements.
- **(c)** As a condition to the inclusion of its Registrable Securities in a Registration Statement, each Holder shall furnish to the Company such information regarding such Holder and the distribution proposed by such Holder as the Company may reasonably request in writing that is required in connection with any registration referred to in this Article 6.
- (d) Each Holder hereby covenants with the Company that it shall comply with the prospectus delivery requirements, if any, under the Securities Act as applicable to it or an exemption therefrom in connection with sales of Registrable Securities pursuant to the Registration Statement filed by the Company pursuant to this Agreement.
- (e) At the end of the Registration Period the Holders shall discontinue sales of any Shares or Warrant Shares pursuant to any Registration Statement upon receipt of notice from the Company of its intention to remove from registration the Shares or Warrant Shares covered by any such Registration Statement which remain unsold.
- **6.8** With a view to making available to the Holders the benefits of certain rules and regulations of the SEC which at any time permit the sale of the Registrable Securities to the public without registration, so long as the Holders still own Registrable Securities, the Company shall use its best efforts to:
- (a) make and keep public information available, as those terms are understood and defined in Rule 144 under the Securities Act, at all times;
- (b) file with the SEC in a timely manner all reports and other documents required of the Company under the Exchange Act; and
- (c) so long as a Holder owns any Registrable Securities, furnish to such Holder, upon any reasonable request, a written statement by the Company as to its compliance with Rule 144 under the Securities Act, and of the Exchange Act, a copy of the most recent annual or quarterly report of the Company, and such other reports and documents of the Company as such Holder may reasonably request in availing itself of any rule or regulation of the SEC allowing a Holder to sell any such securities without registration.
- **6.9** The rights to cause the Company to register Registrable Securities granted to the Holders by the Company under Section 6.1 may be assigned by a Holder in connection with a transfer by such Holder of all or a portion of its Registrable Securities, *provided*, *however*, that such transfer may otherwise be effected in accordance with the terms of this Agreement and applicable securities laws and such transferee agrees to comply with the terms and provisions of this Agreement. Except as specifically permitted by this Section 6.9, the rights of a Holder with respect to Registrable Securities as set out herein shall not be transferable to any other Person, and any attempted transfer shall cause all rights of such Holder therein to be forfeited. The Company shall not enter into any agreement, take any action, or permit any change to occur, with respect to its securities that violates or subordinates the rights expressly granted to the Holders in this Agreement.

6.10 The rights of any Holder under any provision of this Article 6 may be waived by such Holder as to itself (either generally or in a particular instance, either retroactively or prospectively and either for a specified period of time or indefinitely) or amended by an instrument in writing signed by such Holder.

ARTICLE 7

DEFINITIONS

- **7.1 "Acquiring Person"** has the meaning set forth in Section 2.44.
- **7.2** "Affiliate" means, with respect to any Person (as defined below), any other Person controlling, controlled by or under direct or indirect common control with such Person (for the purposes of this definition "control," when used with respect to any specified Person, shall mean the power to direct the management and policies of such Person, directly or indirectly, whether through ownership of voting securities, by contract or otherwise; and the terms "controlling" and "controlled" shall have meanings correlative to the foregoing).
- **7.3 "Agreement"** has the meaning set forth in the preamble.
- **7.4** "Attribution Parties" means, with respect to any Person, such Person's Affiliates and any other Person whose beneficial ownership of Common Stock would be aggregated with such Person's for purposes of Section 13(d) or Section 16 of the Exchange Act and the applicable regulations of the SEC, including any "group" of which such Person is a member.
- **7.5** "Beneficial Ownership Limitation" means the percentage set forth opposite such Purchaser's name on Schedule 1 hereto under the heading "Beneficial Ownership Limitation".
- 7.6 "Business Day" means a day Monday through Friday on which banks are generally open for business in New York City.
- **7.7 "Closing"** has the meaning set forth in Section 1.1(a).
- **7.8 "Closing Date"** has the meaning set forth in Section 1.1(c).
- **7.9 "Common Stock"** means the common stock, par value \$0.00001 per share, of the Company.
- **7.10 "Cut Back Securities"** has the meaning set forth in Section 6.1.
- **7.11 "Disclosure Time"** means , (i) if this Agreement is signed on a day that is not a Business Day or after 9:00 a.m. (New York City time) and before midnight (New York City time) on any Business Day, 9:01 a.m. (New York City time) on the Business Day immediately following the date hereof and (ii) if this Agreement is signed between midnight (New York City time) and 9:00 a.m. (New York City time) on any Business Day, no later than 9:01 a.m. (New York City time) on the date hereof.
- **7.12** "Disqualification Event" has the meaning set forth in Section 2.46.

- **7.13** "Engagement Letter" means the Engagement Letter by and between the Company and the Placement Agent, dated June 6, 2023.
- **7.14 "Exchange Act"** means the Securities Exchange Act of 1934, as amended.
- 7.15 "FDA" means the United States Food and Drug Administration.
- **7.16 "Filing Date"** has the meaning set forth in Section 6.1.
- **7.17 "Holders"** means any Person holding Registrable Securities or any Person to whom the rights under Article 6 have been transferred in accordance with Section 6.9 hereof.
- **7.18 "Indemnified Party"** has the meaning set forth in Section 6.6(c).
- **7.19 "Indemnifying Party"** has the meaning set forth in Section 6.6(c).
- **7.20 "Initial Registration Statement"** has the meaning set forth in Section 6.1.
- **7.21 "Issuer Covered Person"** has the meaning set forth in Section 2.46.
- **7.22 "Material Adverse Effect"** means circumstances that could reasonably be expected to have a material adverse effect on (a) the business, operations, assets, condition (financial or otherwise) or prospects of the Company and its subsidiaries, taken as a whole, or (b) the ability of the Company to perform its obligations pursuant to the transactions contemplated by the Transaction Documents, including to consummate the transactions contemplated thereby.
- 7.23 "Nasdaq" means The Nasdaq Stock Market LLC.
- **7.24 "New Registration Statement"** has the meaning set forth in Section 6.1.
- **7.25 "Penalty Period"** has the meaning set forth in Section 6.3.
- 7.26 "Per Share Purchase Price" means \$0.90.
- **7.27 "Person"** means any person, individual, corporation, limited liability company, partnership, trust or other nongovernmental entity or any governmental agency, court, authority or other body (whether foreign, federal, state, local or otherwise).
- **7.28 "Placement Agent"** means Jefferies LLC.
- 7.29 "Pre-Funded Warrants" has the meaning set forth in Recital B to this Agreement, in the form of Exhibit A attached hereto.
- **7.30 "Purchasers"** has the meaning set forth in the preamble.
- **7.31** The terms "register," "registered" and "registration" refer to the registration effected by preparing and filing a registration statement in compliance with the Securities Act, and the declaration or ordering of the effectiveness of such registration statement.

- **7.32 "Registrable Securities"** means (i) the Shares and (ii) the Warrant Shares; *provided, however*, that Shares and Warrant Shares shall only be treated as Registrable Securities if and only for so long as they (A) have not been disposed of pursuant to a registration statement declared effective by the SEC, (B) have not been sold in a transaction exempt from the registration and prospectus delivery requirements of the Securities Act so that all transfer restrictions and restrictive legends with respect thereto are removed upon the consummation of such sale or (C) are held by a Holder or a permitted transferee pursuant to Section 6.9.
- **7.33 "Registration Default"** has the meaning set forth in Section 6.3.
- **7.34 "Registration Expenses"** means all expenses incurred by the Company in complying with Section 6.1 hereof, including, without limitation, all registration, qualification and filing fees, printing expenses, escrow fees, fees and expenses of counsel for the Company, blue sky fees and expenses and the expense of any special audits incident to or required by any such registration (but excluding the fees of legal counsel for any Holder).
- 7.35 "Registration Period" has the meaning set forth in Section 6.4(a).
- **7.36 "Registration Statement"** means any one or more registration statements of the Company filed under the Securities Act that covers the resale of any of the Registrable Securities pursuant to the provisions of this Agreement (including without limitation any Initial Registration Statement, any New Registration Statement and any Remainder Registration Statements) and amendments and supplements to such Registration Statements, including post-effective amendments.
- **7.37 "Remainder Registration Statement"** has the meaning set forth in Section 6.1.
- 7.38 "Rule 144" means Rule 144 promulgated under the Securities Act, or any successor rule.
- 7.39 "Rule 415" means Rule 415 promulgated under the Securities Act, or any successor rule.
- **7.40 "SEC"** means the United States Securities and Exchange Commission.
- **7.41 "SEC Documents"** has the meaning set forth in Section 2.1.
- 7.42 "Securities" has the meaning set forth in Section 2.4.
- 7.43 "Securities Act" means the Securities Act of 1933, as amended, and the rules and regulations thereunder, or any similar successor statute.
- **7.44 "Selling Expenses"** means all selling commissions applicable to the sale of Registrable Securities and all fees and expenses of legal counsel for any Holder.
- **7.45** *"Shares"* has the meaning set forth in Recital B to this Agreement.
- **7.46 "Subscription Amount"** has the meaning set forth in Section 1.1(a).
- 7.47 "Trading Day" means a day on which the principal Trading Market is open for trading.
- **7.48 "Trading Market"** means any of the following markets or exchanges on which the shares of Common Stock are listed or quoted for trading on the date in question: the NYSE American, Nasdaq, or the New York Stock Exchange (or any successors to any of the foregoing).

- **7.49 "Transaction Documents"** has the meaning set forth in Section 2.9.
- **7.50 "Transfer Agent"** means American Stock Transfer & Trust Company or any successor transfer agent of the Company.
- 7.51 "Warrant Shares" means the shares of Common Stock issuable upon exercise of the Pre-Funded Warrants.

ARTICLE 8

GOVERNING LAW; MISCELLANEOUS

- **8.1 Governing Law; Jurisdiction.** This Agreement will be governed by and interpreted in accordance with the laws of the State of New York without regard to the principles of conflict of laws (whether of the State of New York or any other jurisdiction) which would result in the application of the laws of any other jurisdiction. Any legal suit, action or proceeding arising out of or based upon this Agreement or the transactions contemplated hereby may be instituted in the federal courts of the United States of America located in the Borough of Manhattan in the City of New York or the courts of the State of New York in each case located in the Borough of Manhattan in the City of New York (collectively, the "**Specified Courts**"), and each party irrevocably submits to the exclusive jurisdiction (except for proceedings instituted in regard to the enforcement of a judgment of any such court, as to which such jurisdiction is non-exclusive) of such courts in any such suit, action or proceeding. Service of any process, summons, notice or document by mail to such party's address set forth above shall be effective service of process for any suit, action or other proceeding brought in any such court. The parties irrevocably and unconditionally waive any objection to the laying of venue of any suit, action or other proceeding brought in any such courts and irrevocably and unconditionally waive and agree not to plead or claim in any such court that any such suit, action or other proceeding brought in any such court has been brought in an inconvenient forum.
- **8.2 Counterparts; Signatures by Facsimile.** This Agreement may be executed in counterparts, all of which are considered one and the same agreement and will become effective when counterparts have been signed by each party and delivered to the other parties. This Agreement may also be executed and delivered by facsimile signature, PDF or any electronic signature complying with the U.S. federal ESIGN Act of 2000 (e.g., www.docusign.com).
- **8.3 Headings.** The headings of this Agreement are for convenience of reference only, are not part of this Agreement and do not affect its interpretation.
- **8.4 Severability.** If any provision of this Agreement is invalid or unenforceable under any applicable statute or rule of law, then such provision will be deemed modified in order to conform with such statute or rule of law. Any provision hereof that may prove invalid or unenforceable under any law will not affect the validity or enforceability of any other provision hereof.
- **8.5 Entire Agreement; Amendments.** The Transaction Documents (including all schedules and exhibits hereto and thereto) constitute the entire agreement among the parties hereto with respect to the subject matter hereof and thereof. There are no restrictions, promises, warranties or undertakings, other than those set forth or referred to herein or therein. The Transaction Documents supersede all prior agreements and understandings among the parties hereto with respect to the subject matter hereof and thereof. No provision of this Agreement may be waived, modified, supplemented or amended except in a written instrument signed, in the case of an amendment, following the Closing by the Company and Purchasers which in the aggregate purchased at least 50.1% in interest of the Registrable Securities hereunder (the "**Required Purchasers**"), and prior to the Closing, the Company and each Purchaser, and, in the case of a waiver, by the party against whom enforcement of any such waived provision is sought, provided that (i) if any amendment or modification disproportionately and adversely impacts a Purchaser

(or group of Purchasers), the consent of such disproportionately impacted Purchaser (or group of Purchasers) shall also be required and (ii) following the Closing, such Required Purchasers includes the consent of any Purchaser whose Subscription Amount was at least \$20,000,000. No waiver of any default with respect to any provision, condition or requirement of this Agreement shall be deemed to be a continuing waiver in the future or a waiver of any subsequent default or a waiver of any other provision, condition or requirement hereof, nor shall any delay or omission of any party to exercise any right hereunder in any manner impair the exercise of any such right. Any amendment effected in accordance with this Section 8.5 shall be binding upon each Purchaser and holder of Securities and the Company. No consideration (including any modification of any Transaction Document) shall be offered or paid to any Person to amend or consent to a waiver or modification of any provision of the Transaction Documents unless the same consideration is also offered to all of the parties to the Transaction Documents. For clarification purposes, this provision constitutes a separate right granted to each Purchaser by the Company and negotiated separately by each Purchaser, and is intended for the Company to treat the Purchasers as a class and shall not in any way be construed as the Purchasers acting in concert or as a group with respect to the purchase, disposition or voting of Securities or otherwise.

8.6 Notices. All notices required or permitted hereunder shall be in writing and shall be deemed effectively given: (a) upon personal delivery to the party to be notified, (b) when sent by email or facsimile if sent during normal business hours of the recipient, and if sent at a time other than during normal business hours of the recipient, then on the next Business Day, in each case upon written confirmation of receipt (but disregarding any automatically generated message from the recipient), (c) five days after having been sent by registered or certified mail, return receipt requested, postage prepaid, or (d) one Business Day after deposit with a nationally recognized overnight courier, specifying next day delivery, with written verification of receipt. The addresses for such communications are:

If to the Company: Taysha Gene Therapies, Inc.

3000 Pegasus Park Drive, Suite 1430

Dallas, Texas 75247

Attention: Chief Financial Officer Email: KAlam@tayshagtx.com

With a copy to: Cooley LLP

1299 Pennsylvania Avenue, NW

Suite 700

Washington, DC 20004 Attention: Madison Jones

Email: madison.jones@cooley.com

If to a Purchaser: To the address set forth immediately below such Purchaser's name on the signature pages hereto. Each party will provide ten days' advance written notice to the other parties of any change in its address.

8.7 Successors and Assigns. This Agreement is binding upon and inures to the benefit of the parties and their successors and assigns. The Company will not assign this Agreement or any rights or obligations hereunder without the prior written consent of the Purchasers, and no Purchaser may assign this Agreement or any rights or obligations hereunder without the prior written consent of the Company, except a Purchaser may assign this Agreement (i) to an Affiliate provided that such transferee agrees in writing to be bound, with respect to the transferred Securities and (ii) as permitted in accordance with Section 6.9 hereof.

8.8 Third Party Beneficiaries. This Agreement is intended for the benefit of the parties hereto, their respective permitted successors and assigns and the Placement Agent, and is not for the benefit of, nor may any provision hereof be enforced by, any other Person, except as otherwise provided herein.

- **8.9 Further Assurances.** Each party will do and perform, or cause to be done and performed, all such further acts and things, and will execute and deliver all other agreements, certificates, instruments and documents, as another party may reasonably request in order to carry out the intent and accomplish the purposes of this Agreement and the consummation of the transactions contemplated hereby.
- **8.10** No Strict Construction. The language used in this Agreement is deemed to be the language chosen by the parties to express their mutual intent, and no rules of strict construction will be applied against any party.
- **8.11 Equitable Relief.** The Company acknowledges and agrees that the Company's failure to perform or discharge any of its obligations under this Agreement will result in irreparable damage to the Purchasers and that monetary damages, even if available, would provide inadequate relief to the Purchasers. The Company therefore agrees that the Purchasers are entitled to seek temporary and permanent injunctive relief, including specific performance, in any such case and waives any requirement for the posting of a bond. Each Purchaser also acknowledges and agrees that its failure to perform or discharge any of its obligations under this Agreement will result in irreparable damage to the Company and that monetary damages, even if available, would provide inadequate relief to the Company. Each Purchaser therefore agrees that the Company is entitled to seek temporary and permanent injunctive relief, including specific performance, in any such case and waives any requirement for the posting of a bond.
- **8.12 Survival of Representations and Warranties.** Notwithstanding any investigation made by any party to this Agreement, all representations and warranties made by the Company and the Purchasers herein shall survive for a period of one year following the Closing.
- 8.13 Independent Nature of Purchasers' Obligations and Rights. The obligations of each Purchaser under this Agreement are several and not joint with the obligations of any other Purchaser, and no Purchaser shall be responsible in any way for the performance of the obligations of any other Purchaser under this Agreement. Nothing contained herein and no action taken by any Purchaser pursuant hereto, shall be deemed to constitute the Purchasers as a partnership, an association, a joint venture or any other kind of entity, or create a presumption that the Purchasers are in any way acting in concert or as a group, or are deemed affiliates with respect to such obligations or the transactions contemplated by this Agreement. Each Purchaser shall be entitled to independently protect and enforce its rights, including without limitation the rights arising out of this Agreement, and it shall not be necessary for any other Purchaser to be joined as an additional party in any proceeding for such purpose. The Company has elected to provide all Purchasers with the same terms of this Agreement for the convenience of the Company and not because it was required or requested to do so by any of the Purchasers. It is expressly understood and agreed that each provision contained in this Agreement is between the Company and a Purchaser, solely, and not between the Company and the Purchasers collectively and not between and among the Purchasers. Notwithstanding anything to the contrary in the foregoing, each of the Purchasers has been advised, and is being advised by this Agreement, to consult with an attorney before executing this Agreement, and each Purchaser has consulted (or had an opportunity to consult) with counsel of such Purchaser's choice concerning the terms and conditions of this Agreement for a reasonable period of time prior to the execution hereof and thereof.
- **8.14** Exculpation of the Placement Agent. Each party hereto agrees for the express benefit of the Placement Agents and their respective Affiliates and representatives that:
- (a) The Placement Agent and its Affiliates and representatives (i) have no duties or obligations other than those specifically set forth herein or in its Engagement Letter; (ii) shall not be liable for any improper payment made in accordance with the information provided by the Company; (iii) make no representation or warranty, and have no responsibilities as to the validity, accuracy, value or genuineness of any information, certificates or documentation delivered by or on behalf of the Company pursuant to this Agreement or in connection with any of the transactions

contemplated hereby; and (iv) shall not be liable (A) for any action taken, suffered or omitted by any of them in good faith and reasonably believed to be authorized or within the discretion or rights or powers conferred upon them by this Agreement, or (B) for anything which any of them may do or refrain from doing in connection with this Agreement, except in each case for such Person's own gross negligence, willful misconduct or bad faith.

- **(b)** The Placement Agent and its Affiliates and representatives shall be entitled to rely on, and shall be protected in acting upon, any certificate, instrument, notice, letter or any other document or security delivered to any of them by or on behalf of the Company.
- **8.15 Termination.** This Agreement may be terminated (a) by written agreement of a Purchaser as to such Purchaser's obligations and the Company, provided that the Company notifies each other Purchaser of such termination within one (1) calendar day of such termination (or if such termination occurs on the Closing Date, notice will be provided on the Closing Date), or (b) by any Purchaser, as to such Purchaser's obligations hereunder only and without any effect whatsoever on the obligations between the Company and the other Purchasers, by written notice to the other parties, if the Closing has not been consummated on or before the fifth (5th) Business Day following the date hereof; provided, however, that no such termination will affect the right of any party to sue for any breach by any other party (or parties). The Company shall provide prompt notice of any such termination to each other Purchaser.

[Signature Pages Follow]

IN WITNESS WHEREOF, the undersigned has caused this Securities Purchase Agreement to be duly executed as of the date first above written.

TAYSHA	GENE	THERAPIES.	INC.

Ву:

Name: Sean Nolan
Title: Chief Executive Officer

IN W	ITNESS WHEREOF, the undersigned has cause	ed this Securities Purchase Agreement to be duly executed as of the date first above written.
PURCHASE	r:	-
By:		
Name:		•
Title:		
Address:		
Attention:		
Email:		

Schedule 1 SCHEDULE OF PURCHASERS

<u>Purchaser</u>	Beneficial Ownership <u>Limitation</u> 4.9%	Shares of Common Stock	Warrant Shares Underlying Pre-Funded Warrant	Aggregate Subscription Amount	Aggregate Purchase Price (Wire Amount)
	9.99%				
	9.99%				
	9.99%				
	9.99%				
	Total:				

EXHIBIT A FORM OF PRE-FUNDED WARRANT



Taysha Gene Therapies Reports Initial Clinical Data from First Adult Rett Syndrome Patient Dosed in REVEAL Phase 1/2 Trial and Provides Corporate Update with Second Quarter 2023 Financial Results

Data from first adult patient dosed in REVEAL Phase 1/2 trial showed TSHA-102 was well-tolerated with no treatment-emergent serious adverse events (SAEs) as of six-week assessment and improvement in key efficacy measures, including Clinical Global Impression – Improvement (CGI-I), Clinical Global Impression – Severity (CGI-S) and Rett Syndrome Behavior Questionnaire (RSBQ), four weeks post-treatment

Principal Investigator (PI) observed clinical improvement in multiple domains, including autonomic function (sleep and breathing), vocalization, as well as gross motor skills (gained ability to sit unassisted for three minutes) and fine motor skills (gained ability to hold objects), supported by initial clinical data and video evidence

United States (U.S.) Food and Drug Administration (FDA) cleared the Investigational New Drug (IND) application for TSHA-102 in pediatric patients with Rett syndrome

Clinical Trial Application (CTA) submitted to the United Kingdom (U.K.) Medicines and Healthcare products Regulatory Agency (MHRA) for TSHA-102 in pediatric patients with Rett syndrome

Private placement financing ("PIPE") is expected to result in gross proceeds of approximately \$150 million from new and existing investors and, net proceeds from PIPE, along with existing cash and cash equivalents, extends cash runway into the third quarter of 2025

Conference call and live webcast today at 8:30 AM Eastern Time

Dallas – **August 14, 2023** – Taysha Gene Therapies, Inc. (Nasdaq: TSHA), a clinical-stage gene therapy company focused on developing and commercializing AAV-based gene therapies for the treatment of monogenic diseases of the central nervous system (CNS), today reported financial results for the second quarter ended June 30, 2023, and provided a corporate update.

"We are pleased with the progress we have made this quarter in the clinical evaluation of our two lead investigational programs. For TSHA-102 in Rett syndrome, we believe the initial safety profile and significant clinical improvements seen in the first adult patient with severe disease four weeks post-treatment reinforces the transformative potential of our gene therapy to address the root cause of Rett syndrome. Importantly, these early data indicate that the miRNA-Responsive Auto-Regulatory Element (miRARE) technology is mediating *MECP2* expression in the CNS on a cell-by-cell basis, supporting the regulatory control of miRARE. We are highly encouraged by the initial data for TSHA-102 and are focused on continuing to explore its therapeutic potential, with the dosing of the second patient expected in the third quarter. We also received FDA clearance to initiate clinical development of TSHA-102 in pediatric patients in the U.S. and have submitted a CTA to the MHRA for TSHA-102 in pediatric patients with Rett syndrome, which will expand our clinical evaluation to children with earlier stages of disease progression," said Sean P. Nolan, Chairman and Chief Executive Officer of Taysha. "For TSHA-120 in GAN, our new comprehensive data analysis utilizing the Disease Progression Model (DPM) was submitted to the FDA, and we plan to review the potential regulatory pathway for TSHA-120 with the Agency expected in the third quarter."



Mr. Nolan continued, "Our successful completion of a \$150 million PIPE from top-tier investors significantly bolsters our balance sheet and we believe highlights the enthusiasm for our TSHA-102 program and the early clinical readout of the first patient treated in the REVEAL trial. By extending our cash runway into the third quarter of 2025, we can focus on execution as we endeavor to deliver on key value-creating milestones."

Dr. Elsa Rossignol, M.D., FRCP, FAAP, Associate Professor Neuroscience and Pediatrics at CHU Sainte-Justine, affiliated to the Université de Montréal, and Principal Investigator of the REVEAL trial added, "The efficacy response observed following treatment with TSHA-102 in the first adult with an advanced stage of Rett syndrome is promising. Prior to treatment, the patient was in a constant state of hypertonia, had limited body movement, required constant back support, and had lost fine and gross motor function early in childhood. Following treatment, we have observed improvements in breathing patterns, vocalization and motor skills. The patient was able to sit unassisted for the first time in over a decade, and she demonstrated the ability to unclasp her hands and hold an object steadily for the first time since infancy. I believe that the patient achieving these milestones so early in treatment, coupled with the improvements in breathing patterns and quality of sleep that we have observed, are highly encouraging and support the potential of TSHA-102. I am honored to work with the Rett syndrome community and help patients and families suffering from this devastating disease."

Rett syndrome is a rare neurodevelopmental disorder caused by mutations in the X-linked *MECP2* gene. The disorder is characterized by intellectual disabilities, loss of communication, seizures, slowing and/or regression of development, motor and respiratory impairment, and shortened life expectancy. Rett syndrome caused by a pathogenic/likely pathogenic *MECP2* mutation is estimated to affect between 15,000 and 20,000 patients in the U.S., EU and UK.

Recent Corporate Highlights

\$150 million private placement financing strengthens balance sheet and, together with existing cash and cash equivalents, extends cash runway into the third quarter of 2025

- Private placement led by new investor, RA Capital Management, with participation from a large institutional investor, PBM Capital, RTW
 Investments, LP, Venrock Healthcare Capital Partners, TCGX, Acuta Capital Partners, Kynam Capital Management, LP, Octagon Capital,
 Invus, GordonMD® Global Investments LP, and B Group Capital
- Cash runway expected to fund operational plans into the third quarter of 2025
- Net proceeds to primarily fund clinical development of TSHA-102 in Rett syndrome and provide support for program activities for TSHA-120 in GAN, working capital, and other general corporate purposes

Recent Clinical Highlights

TSHA-102 in Rett syndrome: a self-complementary intrathecally delivered AAV9 gene transfer therapy in clinical evaluation for Rett syndrome, a rare genetic neurodevelopmental disorder caused by mutations in the X-linked *MECP2* gene. TSHA-102 utilizes a novel miRARE platform designed to mediate levels of *MECP2* in the CNS on a cell-by-cell basis without risk of overexpression. TSHA-102 has received Orphan Drug and Rare Pediatric Disease designations from the FDA and has been granted Orphan Drug designation from the European Commission.



TSHA-102 is being evaluated in the <u>REVEAL Phase 1/2 trial</u>, a first-in-human, open-label, randomized, dose-escalation and dose-expansion study evaluating the safety and preliminary efficacy of TSHA-102 in adult females with Rett syndrome due to *MECP2* loss-of-function mutation. Primary efficacy endpoints are patient assessments by clinicians using the Clinical Global Impressions Scale – Improvement (CGI-I), Rett Syndrome Hand Function Scale, and Revised Motor Behavior Assessment (R-MBA). Secondary endpoints include patient assessments by clinicians and caregivers using the Clinical Global Impressions Scale – Severity (CGI-S), the Rett Syndrome Behavior Questionnaire (RSBQ) and other clinical assessment scales.

Results from the first adult patient dosed in cohort one (low dose) with TSHA-102 in the REVEAL Phase 1/2 trial:

- Well-tolerated safety profile with no treatment-emergent SAEs as of six-week assessment post-treatment
- The following were demonstrated in key efficacy measures four weeks post-treatment:
 - Clinical Global Impressions Improvement (CGI-I) scale adapted to Rett syndrome, a clinician-reported assessment of overall improvement using a seven-point scale (one="very much improved" and seven="very much worse"), demonstrated a score of two indicating "much improved"
 - Clinical Global Impressions Severity (CGI-S) scale, a clinician-reported assessment of overall severity of a patient's illness using a
 seven-point scale, demonstrated a one-point improvement from the baseline score of six ("severely ill") to a score of five ("markedly
 ill")
 - Rett Syndrome Behavior Questionnaire (RSBQ), a 45-item questionnaire to assess Rett syndrome characteristics, demonstrated a total score improvement of 23 points from the baseline score of 52 to a score of 29
- Seizure diary demonstrated no quantifiable seizure events through week five post-treatment
- No marked changes observed four weeks post treatment in the Revised Motor Behavior Assessment (R-MBA), a 24-question clinicianreported scale measuring disease behaviors of Rett syndrome
- Initial efficacy data and clinical observations supported by video evidence from PI six-weeks post-treatment indicate clinical improvements in multiple domains, including:
 - Autonomic function with improvements in breathing patterns and sleep quality/duration, including the normalization of night-time behavior
 - · Vocalization with increased social interest
 - Gross motor skills with the gained ability to sit unassisted for three minutes
 - Fine motor skills and hand function with the gained ability to hold an object, unclasp her hands and use her fingers to touch a screen
- Further updates on available clinical data expected quarterly
- Dosing of second patient cleared by the Independent Data Monitoring Committee (IDMC) and expected in Q3 2023, with continued dosing
 of adult patients in second half of 2023
- U.S. FDA cleared the IND application for TSHA-102 in pediatric patients with Rett syndrome
- CTA submitted to U.K. MHRA for TSHA-102 in pediatric patients with Rett syndrome



TSHA-120 for giant axonal neuropathy (GAN): a self-complementary intrathecally delivered AAV9 gene therapy in clinical evaluation for GAN, an ultra-rare inherited genetic neurodegenerative disorder with no approved treatments. TSHA-120 has received Orphan Drug and Rare Pediatric Disease designations from the FDA and has been granted Orphan Drug designation from the European Commission.

- At R&D Day in June 2023, Taysha provided an overview of new comprehensive data analysis and development of disease progression
 model (DPM), which the Company believes has the potential to address FDA feedback regarding the heterogeneity of GAN and effortdependent nature of MFM32 as the primary endpoint in an unblinded study
- New comprehensive data analysis utilizing the DPM submitted as meeting request to the FDA; feedback for a potential regulatory pathway for TSHA-120 expected in Q3 2023
- FDA feedback on CMC module 3 amendment concluded that the analytical data is sufficient to support the comparability of pivotal lot and release for use in clinical studies

Second Quarter 2023 Financial Highlights

Research and Development Expenses: Research and development expenses were \$19.8 million for the three months ended June 30, 2023, compared to \$23.5 million for the three months ending June 30, 2022. The \$3.7 million decrease was due to lower compensation expense as a result of reduced headcount and fewer manufacturing batches and raw material purchases.

General and Administrative Expenses: General and administrative expenses were \$6.0 million for the three months ended June 30, 2023, compared to \$9.9 million for the three months ended June 30, 2022. The decrease of \$3.9 million was due to reduced general and administrative compensation as a result of lower headcount, consulting and professional fees.

Net loss: Net loss for the three months ended June 30, 2023 was \$24.6 million or \$0.38 per share, as compared to a net loss of \$34.1 million, or \$0.85 per share, for the three months ended June 30, 2022.

Cash and cash equivalents: As of June 30, 2023, Taysha had \$45.1 million in cash and cash equivalents. Taysha expects to receive gross proceeds of \$150 million from the Private Placement, which is expected to close August 16, 2023, before deducting placement agent commissions and offering expenses. The net proceeds from the private placement, combined with the current cash and cash equivalents, are expected to fund its operational plans and capital requirements into the third quarter of 2025.

Conference Call and Webcast Information

Taysha management will hold a conference call and webcast today at 8:30 am ET to review its financial and operating results and to provide a corporate update. The dial-in number for the conference call is 877-407-0792 (U.S./Canada) or 201-689-8263 (international). The conference ID for all callers is 13740092. The live webcast can be accessed here: https://viavid.webcasts.com/starthere.jsp?ei=1624983&tp_key=25b742b70a. An archived version of the webcast will be available for 30 days and can be accessed by visiting Taysha's website at https://ir.tayshagtx.com/news-events/events-presentations.



About Taysha Gene Therapies

Taysha Gene Therapies (Nasdaq: TSHA) is on a mission to eradicate monogenic CNS disease. With a singular focus on developing curative medicines, we aim to rapidly translate our treatments from bench to bedside. We have combined our team's proven experience in gene therapy drug development and commercialization with the world-class UT Southwestern Gene Therapy Program. Together, we leverage our fully integrated platform with a goal of dramatically improving patients' lives. More information is available at www.tayshagtx.com.

Forward-Looking Statements

This press release contains forward-looking statements within the meaning of the Private Securities Litigation Reform Act of 1995. Words such as "anticipates," "believes," "expects," "intends," "projects," "plans," and "future" or similar expressions are intended to identify forward-looking statements. Forward-looking statements include statements concerning the potential of our product candidates, including the reproducibility and durability of any favorable results initially seen in our first patient dosed in the REVEAL trial and including our preclinical product candidates, to positively impact quality of life and alter the course of disease in the patients we seek to treat, our research, development and regulatory plans for our product candidates, the potential for these product candidates to receive regulatory approval from the FDA or equivalent foreign regulatory agencies, and whether, if approved, these product candidates will be successfully distributed and marketed, the potential market opportunity for these product candidates, our corporate growth plans, statements associated with the timing, size and completion of the Private Placement, the forecast of our cash runway and the Company's expectations regarding funding, operating and working capital expenditures. Forward-looking statements are based on management's current expectations and are subject to various risks and uncertainties that could cause actual results to differ materially and adversely from those expressed or implied by such forward-looking statements. Accordingly, these forward-looking statements do not constitute guarantees of future performance, and you are cautioned not to place undue reliance on these forward-looking statements. Risks regarding our business are described in detail in our Securities and Exchange Commission ("SEC") filings, including in our Annual Report on Form 10-K for the full-year ended December 31, 2022, and our Quarterly Report on Form 10-Q for the quarter ended March 31, 2023, both of which are available on the SEC's website at www.sec.gov. Additional information will be made available in other filings that we make from time to time with the SEC. Such risks may be amplified by the impacts of the COVID-19 pandemic. These forward-looking statements speak only as of the date hereof, and we disclaim any obligation to update these statements except as may be required by law.

> Taysha Gene Therapies, Inc. Condensed Consolidated Balance Sheet Data



(in thousands, except share and per share data) (Unaudited)

	June 30, 2023	December 31, 2022	
ASSETS			
Current assets:			
Cash and cash equivalents	\$ 45,083	\$ 87,880	
Prepaid expenses and other current liabilities	9,032	8,537	
Total current assets	54,115	96,417	
Restricted cash	2,637	2,637	
Property, plant and equipment, net	14,139	14,963	
Operating lease right-of-use assets	10,348	10,943	
Other noncurrent assets	304	1,316	
Total assets	\$ 81,543	\$ 126,276	
LIABILITIES AND STOCKHOLDERS' (DEFICIT) EQUITY			
Current liabilities:			
Accounts payable	\$ 10,766	\$ 10,946	
Accrued expenses and other current liabilities	19,631	18,287	
Deferred revenue	26,909	33,557	
Total current liabilities	50,641	62,790	
Deferred revenue, net of current portion	6,212		
Term loan, net	38,354	37,967	
Operating lease liability, net of current portion	19,528	20,440	
Other noncurrent liabilities	3,922	4,130	
Total liabilities	118,657	125,327	
Preferred stock, \$0.00001 par value per share; 10,000,000 shares authorized and no shares issued and			
outstanding as of June 30, 2023 and December 31, 2022		_	
Stockholders' (deficit) equity			
Common stock, \$0.00001 par value per share; 200,000,000 shares authorized and 64,432,637 and 63,207,507			
issued and outstanding as of June 30, 2023, and December 31, 2022, respectively	1	1	
Additional paid-in capital	406,546	402,389	
Accumulated deficit	(443,661)	(401,441)	
Total stockholders' (deficit) equity	(37,114)	949	
Total liabilities and stockholders' (deficit) equity	\$ 81,543	\$ 126,276	



Taysha Gene Therapies, Inc.

Condensed Consolidated Statements of Operations
(in thousands, except share and per share data)
(Unaudited)

	mo	or the three onths ended ne 30, 2023	mo	r the three nths ended ne 30, 2022	mo	or the six onths ended ne 30, 2023	mo	or the six nths ended ne 30, 2022
Revenue:								
Service Revenue	\$	2,395	\$	_	\$	7,101	\$	_
Operating expenses:								
Research and development		19,791		23,506		32,305		61,688
General and administrative		5,988		9,867		14,739		21,336
Total operating expenses		25,779		33,373		47,044		83,024
Loss from operations		(23,384)		(33,373)		(39,943)		(83,024)
Other income (expense):								
Interest Income		223		27		542		41
Interest expense		(1,440)		(743)		(2,814)		(1,415)
Other expense		3		(3)		(5)		(11)
Total other income (expense)		(1,214)		(719)		(2,277)		(1,385)
Net loss	\$	(24,598)	\$	(34,092)	\$	(42,220)	\$	(84,409)
Net loss per common share, basic and diluted	\$	(0.38)	\$	(0.85)	\$	(0.66)	\$	(2.16)
Weighted average common shares outstanding, basic and diluted	6	4,244,531	40	0,142,403	63	3,755,435	39	9,163,996



Company Contact:

Hayleigh Collins
Director, Head of Corporate Communications
Taysha Gene Therapies, Inc.
hcollins@tayshagtx.com

Media Contact:

Carolyn Hawley
Canale Communications
carolyn.hawley@canalecomm.com

Taysha Gene Therapies Announces \$150 Million Private Placement Financing

Financing led by RA Capital Management with participation from new and existing investors

Expected net proceeds, along with existing cash and cash equivalents, are expected to extend cash runway into the third quarter of 2025

DALLAS, August 14, 2023 (GLOBE NEWSWIRE) – Taysha Gene Therapies, Inc. (Nasdaq: TSHA), a clinical-stage gene therapy company focused on developing and commercializing AAV-based gene therapies for the treatment of monogenic diseases of the central nervous system (CNS), announced today that it has entered into a securities purchase agreement for a private placement financing (the "PIPE") that is expected to result in gross proceeds of approximately \$150 million, before deducting placement agent commissions and offering expenses. The PIPE was led by new investor, RA Capital Management, with participation from a large institutional investor, PBM Capital, RTW Investments, LP, Venrock Healthcare Capital Partners, TCGX, Acuta Capital Partners, Kynam Capital Management, LP, Octagon Capital, Invus, GordonMD® Global Investments LP, and B Group Capital.

"We are pleased by the support from this prestigious group of new and existing investors, which we believe highlights the enthusiasm of the early clinical readout of the first patient treated in our REVEAL trial and reinforces the potential of gene therapy to transform the lives of patients suffering from devastating diseases," said Sean P. Nolan, Chairman and Chief Executive Officer of Taysha. "We expect that the net proceeds from the PIPE, together with our existing cash and cash equivalents, will extend our cash runway into the third quarter of 2025 to primarily support the clinical development of TSHA-102 in Rett syndrome and provide support for TSHA-120 program activities in GAN, working capital and other general corporate purposes. With this capital infusion, we believe we are well positioned to continue to execute across key program milestones."

In the PIPE, Taysha is selling an aggregate of 122,412,376 shares of its common stock at a price of \$0.90 per share and, in lieu of common stock to certain investors, pre-funded warrants to purchase up to an aggregate of 44,250,978 shares of common stock at a purchase price of \$0.899 per pre-funded warrant. Each pre-funded warrant has an exercise price of \$0.001 per share of common stock and is immediately exercisable and remains exercisable until exercised in full. The PIPE is being conducted in accordance with applicable Nasdaq rules and was priced to satisfy the "Minimum Price" requirement (as defined in the Nasdaq rules). The PIPE is expected to close by August 16, 2023, subject to customary closing conditions. The pre-funded warrants will only be exercisable upon receipt of stockholder approval of an increase in the authorized shares of Taysha's common stock, which Taysha will first seek to obtain at an annual meeting of stockholders to be held by December 31, 2023.

Jefferies is acting as exclusive placement agent in the private placement.

The securities to be sold in this private placement, including the shares of common stock underlying the pre-funded warrants, have not been registered under the Securities Act of 1933, as amended, or applicable state securities laws, and may not be offered or sold in the United States except pursuant to an effective registration statement or an applicable exemption from the registration requirements. Taysha has agreed to file a registration statement with the Securities and Exchange Commission registering the resale of the shares of common stock and the shares of common stock underlying the pre-funded warrants issued in the PIPE.

This press release shall not constitute an offer to sell or the solicitation of an offer to buy any securities described herein, nor shall there be any sale of these securities in any state or jurisdiction in which such offer, solicitation or sale would be unlawful prior to the registration or qualification under the securities laws of any such state or jurisdiction.

About Taysha Gene Therapies

Taysha Gene Therapies (Nasdaq: TSHA) is on a mission to eradicate monogenic CNS disease. With a singular focus on developing curative medicines, we aim to rapidly translate our treatments from bench to bedside. We have combined our team's proven experience in gene therapy drug development and commercialization with the world-class UT Southwestern Gene Therapy Program. Together, we leverage our fully integrated platform with a goal of dramatically improving patients' lives. More information is available at www.tayshagtx.com.

Forward-Looking Statements

This press release contains forward-looking statements within the meaning of the Private Securities Litigation Reform Act of 1995. Words such as "anticipates," "expects," "intends," "projects," "plans," and "future" or similar expressions are intended to identify forward-looking statements. Forward-looking statements include statements related to the anticipated proceeds to be received in the proposed PIPE, expected timing of closing of the proposed PIPE and the size and completion of the proposed PIPE, the forecast of cash runway and the Company's expectations regarding funding, operating and working capital expenditures. Forward-looking statements are based on management's current expectations and are subject to various risks and uncertainties that could cause actual results to differ materially and adversely from those expressed or implied by such forward-looking statements. Accordingly, these forward-looking statements do not constitute guarantees of future performance, and you are cautioned not to place undue reliance on these forward-looking statements. Risks regarding our business are described in detail in our Securities and Exchange Commission ("SEC") filings, including in our Annual Report on Form 10-K for the full-year ended December 31, 2022, and our Quarterly Report on Form 10-Q for the quarter ended March 31, 2023, both of which are available on the SEC's website at www.sec.gov. Additional information will be made available in other filings that we make from time to time with the SEC. Such risks may be amplified by the impacts of the COVID-19 pandemic. These forward-looking statements speak only as of the date hereof, and we disclaim any obligation to update these statements except as may be required by law.

Company Contact:

Hayleigh Collins
Director, Head of Corporate Communications
Taysha Gene Therapies, Inc.
hcollins@tayshagtx.com

Media Contact:

Carolyn Hawley
Canale Communications
carolyn.hawley@canalecomm.com