

CORTEX PHARMACEUTICALS INC/DE/
Form FWP
August 24, 2007

Issuer Free Writing Prospectus dated August 24, 2007

Filed Pursuant to Rule 433

Registration No. 333-138844

Final Term Sheet

For

Financing

of

Cortex Pharmaceuticals, Inc.

By reading the information contained within this document, the recipient agrees with Cortex Pharmaceuticals, Inc., JMP Securities LLC and Rodman & Renshaw, LLC, to maintain in confidence such information, together with any other non-public information regarding Cortex Pharmaceuticals, Inc. obtained from Cortex Pharmaceuticals, Inc., JMP Securities LLC, Rodman & Renshaw, LLC, or their agents during the course of the proposed financing and to comply with the recipient's obligations under applicable U.S. and state securities laws.

JMP Securities LLC

Rodman & Renshaw, LLC

Cortex Pharmaceuticals, Inc. (the Company) has filed a registration statement (Registration No. 333-138844, including a prospectus) under the Securities Act of 1933, as amended, with the SEC for the offering to which this communication relates. Before you invest, you should read the prospectus in that registration statement and other documents the Company has filed with the SEC for more complete information about the Company and this offering. You may get these documents for free by visiting EDGAR on the SEC website at www.sec.gov. Alternatively, the Company will arrange to send you the base prospectus and any other offering documents if you request them by calling (949) 727-3157.

CONFIDENTIAL SUMMARY OF TERMS AND CONDITIONS

This Confidential Summary of Terms and Conditions is not intended to be contractually binding, other than the cover sheet and the section entitled Confidential Information, and is subject in all respects (other than with respect to such section) to the execution of the Subscription Agreement.

Issuer: Cortex Pharmaceuticals, Inc., a Delaware corporation (the Company).

Securities Offered: Up to an aggregate of (i) 7,075,000 shares (the Shares) of the Company s common stock, \$0.001 par value per share (the Common Stock), and (ii) 2,830,000 warrants to purchase Common Stock (such number being 40% of the number of Shares so purchased, the Warrants , and together with the Shares, the Securities), for a purchase price of \$2.00 per unit (the Offering). The Shares and Warrants are immediately separable and will be issued separately. There is no minimum offering amount.

Warrants: The exercise price of the Warrants shall be \$2.64 per share. The Warrants shall have the rights, preferences, privileges and restrictions substantially as set forth in the Form of Warrant attached hereto.

Purchase Price: \$2.00 per unit

Use of Proceeds to Company: The net proceeds from this Offering will be added to our general funds and used to accelerate development of our AMPAKINE[®] technology, licensing activities, working capital, capital expenditures and other general corporate purposes.

Subscription and Closing Date: The Company and each investor participating in the Offering (each an Investor and collectively the Investors) shall execute a Subscription Agreement in substantially the form attached hereto. It is expected that the closing of the Offering shall occur, and the Securities shall be issued to the Investors and funds paid to the Company therefor, on or about August 29, 2007 (the Closing Date).

Risk Factors: The Securities offered involve a high degree of risk. See the disclosure relating to the risks affecting the Company set forth in the base prospectus included in the registration statement relating to this Offering and the documents filed by the Company with the SEC under the Securities Exchange Act of 1934, as amended.

American Stock Exchange Symbol: COR

Confidential Information:

The recipient of this Confidential Summary of Terms and Conditions and the materials attached hereto agrees with the Company, JMP Securities LLC and Rodman & Renshaw, LLC, to maintain in confidence this disclosed information, together with any other non-public information regarding the Company obtained from the Company, JMP Securities LLC, Rodman & Renshaw, LLC, or their agents during the course of the proposed Offering, and to comply with the recipient's obligations under U.S. and state securities laws.

Placement Agents:

The Company has engaged JMP Securities LLC to act as lead placement agent and Rodman & Renshaw, LLC to act as co-placement agent in connection with the Offering. The placement agents will receive a fee equal to 6.0% of the gross proceeds from the sale of the Securities, and expense reimbursement up to \$35,000. In addition, the Company will issue to the placement agents warrants to purchase up to an aggregate number of shares of Common Stock equal to 2.5% of the aggregate number of Shares sold in the Offering.

Form of Subscription Agreement

Subscription Agreement

This subscription (this Subscription) is dated August 24, 2007, by and between the investor identified on the signature page hereto (the Investor) and Cortex Pharmaceuticals, Inc., a Delaware corporation (the Company), whereby the parties agree as follows:

1. Subscription.

(a) Investor agrees to buy and the Company agrees to sell and issue to Investor (i) such number of shares (the Shares) of the Company's common stock, \$0.001 par value per share (the Common Stock), and (ii) such number of warrants to purchase Common Stock (the Warrants), and together with the Shares, the Securities), as set forth on the signature page hereto, for an aggregate purchase price set forth on the signature page hereto (the Purchase Price).

(b) The Securities have been registered on a Registration Statement on Form S-3, Registration No. 333-138844, which registration statement has been declared effective by the Securities and Exchange Commission and is effective on the date hereof (together with any registration statement filed by the Company pursuant to Rule 462(b) under the Securities Act, the Registration Statement). A final prospectus supplement will be delivered as required by law.

(c) On the closing date, which, in accordance with Rule 15c6-1 promulgated under the Securities Exchange Act of 1934, as amended, is expected to occur on or about August 29, 2007 (the Closing Date), upon satisfaction or waiver of all the conditions to closing set forth in the Placement Agency Agreement (the Placement Agreement) dated August 24, 2007 by and among the Company and the placement agents named therein (the Placement Agents), (i) the Company shall cause its transfer agent to release to the Investor or the Placement Agents (in the event the Investor chooses to settle the Shares via DVP by checking the appropriate space on the Signature Page hereto), as the case may be, the number of Shares being purchased by the Investor (such release of Shares shall be made through the facilities of The Depository Trust Company's DWAC system), (ii) the Company shall deliver to the Investor the Warrants being purchased by the Investor, and (iii) the aggregate purchase price for the Securities being purchased by the Investor will be delivered by or on behalf of the Investor to the Company. If the Investor chooses to settle the Shares via DWAC (by checking the appropriate space on the Signature Page hereto), the provisions set forth in Exhibit A hereto shall be incorporated herein by reference as if set forth fully herein.

2. Company Representations and Warranties. The Company represents and warrants that: (a) it has full corporate power and authority to enter into this Subscription and to perform all of its obligations hereunder; (b) this Subscription has been duly authorized and executed by and, when delivered in accordance with the terms hereof, will constitute a valid and binding agreement of the Company enforceable in accordance with its terms, except as such enforceability may be limited by bankruptcy, insolvency, reorganization, moratorium or similar laws affecting the rights and remedies of creditors generally or subject to general principles of equity; (c) the execution and delivery of this Subscription and the consummation of the transactions contemplated hereby do not conflict with or result in a breach of (i) the Company's Certificate of Incorporation or Bylaws, or (ii) any material agreement to which the Company is a party or by which any of its property or assets is bound; (d) the Shares when issued and paid for in accordance with the terms of this Subscription will be duly authorized, validly

issued, fully paid and non-assessable, the Warrants when issued and paid for in accordance with the terms of this Subscription will be duly and validly authorized by the Company and upon delivery to the Investors at the Closing Date will be valid and binding obligations of the Company, enforceable in accordance with their terms, except as such enforceability may be limited by bankruptcy, insolvency, reorganization, moratorium or similar laws affecting the rights and remedies of creditors generally or subject to general principles of equity, and the shares of Common Stock issuable upon exercise of the Warrants when issued and paid for in accordance with the terms thereof will be duly authorized, validly issued, fully paid and non-assessable; (e) the Registration Statement and any post-effective amendment thereto, at the time it became effective, did not contain any untrue statement of a material fact or omit to state a material fact required to be stated therein or necessary to make the statements therein not misleading; (f) the prospectus contained in the Registration Statement, as amended or supplemented, did not contain as of the effective date thereof, and as of the date hereof does not contain, any untrue statement of a material fact or omit to state a material fact necessary in order to make the statements therein, in light of the circumstances under which they were made, not misleading; and (g) all preemptive rights or rights of first refusal held by stockholders of the Company and applicable to the transactions contemplated hereby have been duly satisfied or waived in accordance with the terms of the agreements between the Company and such stockholders conferring such rights.

In addition, the Placement Agreement contains certain representations and warranties of the Company. The Company acknowledges and agrees that the Investor may rely on the representations and warranties made by it to the Placement Agents in Section 3 of the Placement Agreement, to the same extent as if such representations and warranties had been incorporated in full herein and made directly to the Investor.

3. Investor Representations, Warranties and Acknowledgments.

(a) The Investor represents and warrants that: (i) it has full right, power and authority to enter into this Subscription and to perform all of its obligations hereunder; (ii) this Subscription has been duly authorized and executed by the Investor and, when delivered in accordance with the terms hereof, will constitute a valid and binding agreement of the Investor enforceable against the Investor in accordance with its terms, except as such enforceability may be limited by bankruptcy, insolvency, reorganization, moratorium or similar laws affecting the rights and remedies of creditors generally or subject to general principles of equity; (iii) the execution and delivery of this Subscription and the consummation of the transactions contemplated hereby do not conflict with or result in a breach of (A) the Investor's certificate of incorporation or by-laws (or other governing documents), or (B) any material agreement or any law or regulation to which the Investor is a party or by which any of its property or assets is bound; (iv) it has had full access to the base prospectus included in the Registration Statement and the Company's periodic reports and other information incorporated by reference therein, and was able to read, review, download and print such materials; (v) in making its investment decision in this offering, the Investor and its advisors, if any, have relied solely on the Company's public filings with the Securities and Exchange Commission; (vi) it is knowledgeable, sophisticated and experienced in making, and is qualified to make, decisions with respect to investments in securities representing an investment decision like that involved in the purchase of the Securities; (vii) the Investor has had no position, office or other material relationship within the past three years with the Company or persons known to it to be affiliates of the Company and (viii), except as set forth below, the Investor is not a, and it has no direct or indirect affiliation or association with any, National Association of Securities Dealers, Inc. member as of the date hereof.

(If no exceptions, write none. If left blank, response will be deemed to be none.)

(b) The Investor also represents and warrants that, other than the transactions contemplated hereunder, the Investor has not directly or indirectly, nor has any person acting on behalf of

or pursuant to any understanding with the Investor, executed any disposition, including short sales as defined in Rule 200 of Regulation SHO under the Securities Exchange Act of 1934 (the Short Sales), in the securities of the Company during the period commencing from the time that the Investor first became aware of the proposed transactions contemplated hereunder until the date hereof (Discussion Time). The Investor has maintained the confidentiality of all disclosures made to it in connection with this transaction (including the existence and terms of this transaction).

4. Investor Covenant Regarding Short Sales and Confidentiality. The Investor covenants that neither it nor any affiliates acting on its behalf or pursuant to any understanding with it will execute any Short Sales or other disposition of securities of the Company during the period after the Discussion Time and ending at the time that the transactions contemplated by this Subscription are first publicly announced through a press release. The Investor covenants that until such time as the transactions contemplated by this Subscription are publicly disclosed by the Company through a press release, the Investor will maintain the confidentiality of all disclosures made to it in connection with this transaction (including the existence and terms of this transaction).

5. Public Disclosure. The Company shall (i) before the opening of trading on the American Stock Exchange on the next trading day after the date hereof, issue a press release, disclosing all material aspects of the transactions contemplated hereby, to the extent permitted by applicable law, and (ii) make such other filings and notices in the manner and time required by the Securities and Exchange Commission with respect to the transactions contemplated hereby. The Company shall not identify the Investor by name in any press release or public filing, or otherwise publicly disclose the Investor's name, without the Investor's prior written consent, unless required by law or the rules and regulations of any self-regulatory organization or exchange to which the Company or its securities are subject.

6. Miscellaneous.

(a) This Subscription constitutes the entire understanding and agreement between the parties with respect to its subject matter, and there are no agreements or understandings with respect to the subject matter hereof which are not contained in this Subscription. This Subscription may be modified only in writing signed by the parties hereto.

(b) This Subscription may be executed in any number of counterparts, all of which taken together shall constitute one and the same instrument and shall become effective when counterparts have been signed by each party and delivered to the other parties hereto, it being understood that all parties need not sign the same counterpart. Execution may be made by delivery by facsimile.

(c) The provisions of this Subscription are severable and, in the event that any court or officials of any regulatory agency of competent jurisdiction shall determine that any one or more of the provisions or part of the provisions contained in this Subscription shall, for any reason, be held to be invalid, illegal or unenforceable in any respect, such invalidity, illegality or unenforceability shall not affect any other provision or part of a provision of this Subscription and this Subscription shall be reformed and construed as if such invalid or illegal or unenforceable provision, or part of such provision, had never been contained herein, so that such provisions would be valid, legal and enforceable to the maximum extent possible, so long as such construction does not materially adversely effect the economic rights of either party hereto.

(d) All communications hereunder, except as may be otherwise specifically provided herein, shall be in writing and shall be mailed, hand delivered, sent by a recognized overnight courier service such as Federal Express, or sent via facsimile and confirmed by letter, to the party to whom it is addressed at the following addresses or such other address as such party may advise the other in writing:

To the Seller: as set forth on the signature page hereto.

To the Buyer: as set forth on the signature page hereto.

All notices hereunder shall be effective upon receipt by the party to which it is addressed.

(e) This Subscription shall be governed by and interpreted in accordance with the laws of the State of New York for contracts to be wholly performed in such state and without giving effect to the principles thereof regarding the conflict of laws. To the extent determined by such court, the prevailing party shall reimburse the other party for any reasonable legal fees and disbursements incurred in enforcement of, or protection of any of its rights under this Subscription.

If the foregoing correctly sets forth our agreement, please confirm this by signing and returning to us the duplicate copy of this Subscription.

CORTEX PHARMACEUTICALS, INC.

By:
Name:
Title:

Number of Shares: _____
Number of Warrants: _____
(such number to be equal to 40% of the number of Shares being purchased by the Investor)
Purchase Price Per Unit: \$2.00
Aggregate Purchase Price: \$ _____

Address for Notice:

Cortex Pharmaceuticals, Inc.
15241 Barranca Parkway
Irvine, California 92618
Facsimile: (949) 727-3657
Attention: Chief Executive Officer

INVESTOR: _____

By:
Name:
Title:

Address for Notice:

Facsimile:
Attention:

Taxpayer Identification Number:

Manner of Settlement (check one):

_____ DWAC (see Exhibit A for explanation and instructions)

_____ DVP (see Exhibit B for explanation and instructions)

EXHIBIT A

TO BE COMPLETED BY INVESTOR

SETTLING VIA DWAC

Delivery through the facilities of The Depository Trust Company's (*DTC*) DWAC system, registered in the Investor's name and address as set forth on the Signature Page of the Agreement to which this Exhibit A is attached, and released by American Stock Transfer & Trust Company, the Company's transfer agent (the *Transfer Agent*), to the Investor at the Closing.

Name of DTC Participant (broker-dealer at which the account or accounts to be credited with the Shares are maintained)

DTC Participant Number

Name of Account at DTC Participant being credited with the Shares

Account Number at DTC Participant being credited with the Shares

NO LATER THAN ONE (1) BUSINESS DAY AFTER THE EXECUTION OF THE AGREEMENT TO WHICH THIS EXHIBIT A IS ATTACHED BY THE INVESTOR AND THE COMPANY, THE INVESTOR SHALL:

(I) DIRECT THE BROKER-DEALER AT WHICH THE ACCOUNT OR ACCOUNTS TO BE CREDITED WITH THE SHARES ARE MAINTAINED TO SET UP A DEPOSIT/WITHDRAWAL AT CUSTODIAN (*DWAC*) ON THE CLOSING DATE INSTRUCTING THE TRANSFER AGENT TO CREDIT SUCH ACCOUNT OR ACCOUNTS WITH THE SHARES, AND

(II) REMIT BY WIRE TRANSFER THE AMOUNT OF FUNDS EQUAL TO THE AGGREGATE PURCHASE PRICE FOR THE SECURITIES BEING PURCHASED BY THE INVESTOR TO THE FOLLOWING ACCOUNT:

JPMorgan Chase Bank

ABA # 021000021

Account No.: 304954454

Account Name: Cortex Pharmaceuticals

Such funds shall be held in escrow pursuant to an escrow agreement entered into between JPMorgan Chase Bank, NA (the *Escrow Agent*), the Placement Agents and the Company (the *Escrow Agreement*) until the Closing and delivered by the Escrow Agent on behalf of the Investor to the Company.

EXHIBIT B

TO BE COMPLETED BY INVESTOR

SETTLING VIA DVP

Delivery versus payment (*DVP*) (i.e., the Company shall deliver Shares registered in the Investor's name and address as set forth on the Signature Page of the Agreement to which this Exhibit B is attached and released by the Transfer Agent through DTC's DWAC system to the Investor at the Closing directly to the account(s) at the Placement Agents identified by the Investor and simultaneously therewith payment shall be made by the Placement Agents from such account(s) to the Company). **NO LATER THAN ONE (1) BUSINESS DAY AFTER THE EXECUTION OF THE AGREEMENT TO WHICH THIS EXHIBIT B IS ATTACHED BY THE INVESTOR AND THE COMPANY, THE INVESTOR SHALL:**

- (I) **NOTIFY THE PLACEMENT AGENTS OF THE ACCOUNT OR ACCOUNTS AT THE PLACEMENT AGENTS TO BE CREDITED WITH THE SHARES BEING PURCHASED BY SUCH INVESTOR, AND**

- (II) **CONFIRM THAT THE ACCOUNT OR ACCOUNTS AT THE PLACEMENT AGENT TO BE CREDITED WITH THE SHARES BEING PURCHASED BY THE INVESTOR HAVE A MINIMUM BALANCE EQUAL TO THE AGGREGATE PURCHASE PRICE FOR THE SECURITIES BEING PURCHASED BY THE INVESTOR.**

If the Shares are to be further credited to an account held elsewhere than at the Placement Agents, please complete the information requested below in order to facilitate such further credit:

Name of DTC Participant (broker-dealer at which the account or accounts to be credited with the Shares are maintained)

DTC Participant Number

Name of Account at DTC Participant being credited with the Shares

Account Number at DTC Participant being credited with the Shares

Form of Warrant

COMMON STOCK PURCHASE WARRANT

To Purchase _____ Shares of Common Stock of

Cortex Pharmaceuticals, Inc.

THIS COMMON STOCK PURCHASE WARRANT CERTIFIES that, for value received, _____ (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 February 29, 2008 (the six month anniversary of the issue date) (the Initial Exercise Date) and on or prior to the close of business on August 28, 2012 (the Termination Date) but not thereafter, to subscribe for and purchase from Cortex Pharmaceuticals Inc, a corporation incorporated in the State of Delaware (the Company), up to _____ shares (the Warrant Shares) of Common Stock, par value \$0.001 per share, of the Company (the Common Stock). The purchase price of one share of Common Stock (the Exercise Price) under this Warrant shall be \$2.64, subject to adjustment hereunder. The Exercise Price and the number of Warrant Shares for which the Warrant is exercisable shall be subject to adjustment as provided herein. **Capitalized terms used and not otherwise defined in their initial use shall have the meanings set forth in Section 18 herein.**

1. Title to Warrant. Prior to the Termination Date and subject to compliance with applicable laws and Section 7 of this Warrant, this Warrant and all rights hereunder are transferable, in whole or in part, at the office or agency of the Company by the Holder in person or by duly authorized attorney, upon surrender of this Warrant together with the Assignment Form annexed hereto properly endorsed. The transferee shall sign an investment letter in form and substance reasonably satisfactory to the Company.

2. Authorization of Shares. 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, be duly authorized, validly issued, fully paid and nonassessable and free from all taxes, liens and charges in respect of the issue thereof (other than taxes in respect of any transfer occurring contemporaneously with such issue).

3. Exercise of Warrant.

(a) Exercise of the purchase rights represented by this Warrant may be made at any time or times on or after the Initial Exercise Date and on or before the Termination Date by the surrender of this Warrant and the Notice of Exercise Form annexed hereto duly executed, at the office of the Company (or such other office or agency of the Company as it may designate by notice in writing to the registered Holder at the address of such Holder appearing on the books of the Company) and upon payment of the Exercise Price of the shares thereby purchased by wire transfer or cashier's check drawn on a United States bank or by means of a cashless exercise pursuant to Section 3(d), the Holder shall be entitled to receive a certificate for the number of Warrant Shares so purchased. Certificates for shares purchased hereunder shall be delivered to the Holder within three (3) Trading Days after the date on which this Warrant shall have been exercised as aforesaid. This Warrant shall be deemed to have been exercised and such certificate or certificates shall be deemed to have been issued, and the Holder or any other person so designated to be named therein shall be deemed to have become a holder of record of such shares for all purposes, as of the date the Warrant has been exercised by payment to the Company of

the Exercise Price and all taxes required to be paid by the Holder, if any, pursuant to Section 5 prior to the issuance of such shares, have been paid. If the Company fails to deliver to the Holder a certificate or certificates representing the Warrant Shares pursuant to this Section 3(a) by the close of business on the third Trading Day after the date of exercise, then the Holder will have the right to rescind such exercise. In addition to any other rights available to the Holder, if the Company fails to deliver to the Holder a certificate or certificates representing the Warrant Shares pursuant to an exercise by the close of business on the third Trading Day after the date of exercise, and if after such third Trading Day the Holder is required by its broker to purchase (in an open market transaction or otherwise) 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 (1) pay in cash to the Holder the amount 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 amount obtained by multiplying (A) the number of Warrant Shares that the Company was required to deliver to the Holder in connection with the exercise at issue times (B) the price at which the sell order giving rise to such purchase obligation was executed, and (2) at the option of the Holder, either reinstate the portion of the Warrant and equivalent number of Warrant Shares for which such exercise was not honored or deliver to the Holder the number of shares of Common Stock that would have been issued had the Company timely complied with its exercise and delivery obligations hereunder. For example, if the Holder purchases Common Stock having a total purchase price of \$11,000 to cover a Buy-In with respect to an attempted exercise of shares of Common Stock with an aggregate sale price giving rise to such purchase obligation of \$10,000, under clause (1) of the immediately preceding sentence the Company shall be required to pay the Holder \$1,000. The Holder shall provide the Company written notice 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 certificates representing shares of Common Stock upon exercise of the Warrant as required pursuant to the terms hereof.

(b) If this Warrant shall have been exercised in part, the Company shall, at the time of delivery of the certificate or certificates representing Warrant Shares, deliver to Holder a new Warrant evidencing the rights of 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.

(c) The Holder shall not have the right to exercise any portion of this Warrant, pursuant to Section 3(a) or otherwise, to the extent that after giving effect to such issuance after exercise, the Holder (together with the Holder's Affiliates), as set forth on the applicable Notice of Exercise, would beneficially own in excess of 4.99% of the number of shares of the Common Stock outstanding immediately after giving effect to such issuance. For purposes of the foregoing sentence, the number of shares of Common Stock beneficially owned by the Holder and its Affiliates shall include the number of shares of Common Stock issuable upon exercise of this Warrant with respect to which the determination of such sentence is being made, but shall exclude the number of shares of Common Stock which would be issuable upon (1) exercise of the remaining, nonexercised portion of this Warrant beneficially owned by the Holder or any of its Affiliates and (2) exercise or conversion of the unexercised or nonconverted portion of any other securities of the Company (including, without limitation, any other Warrants) subject to a limitation on conversion or exercise analogous to the limitation contained herein beneficially owned by the Holder or any of its Affiliates. Except as set forth in the preceding sentence, for purposes of this Section 3(c), beneficial ownership shall be calculated in accordance with Section 13(d) of the Exchange Act. For purposes of this Section 3(c), in determining the number of outstanding shares of Common Stock, the Holder may rely on the number of outstanding shares of Common Stock as reflected in (x) the Company's most recent Form 10-Q or Form 10-K, as the case may be, (y) a more recent public

announcement by the Company or (z) any other notice by the Company or the Company's transfer agent setting forth the number of shares of Common Stock outstanding. Upon the written or oral request of the Holder, the Company shall within two Trading Days 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 Company 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 since the date as of which such number of outstanding shares of Common Stock was reported. By written notice to the Company, the Holder may waive the provisions of this Section but any such waiver will not be effective until the 61st day after such notice is delivered to the Company, nor will any such waiver effect any other Holder.

(d) If, but only if, at any time after the Initial Exercise Date there is no effective Registration Statement registering the Warrant Shares, then this Warrant may also be exercised at such time by means of a cashless exercise in which the Holder shall be entitled to receive a certificate for the number of Warrant Shares equal to the quotient obtained by dividing $[(A-B) (X)]$ by (A), where:

(A) = the Closing Price on the Trading Day immediately preceding the date of such election;

(B) = the Exercise Price of this Warrant, as adjusted; and

(X) = the number of Warrant Shares issuable upon exercise of this Warrant in accordance with the terms of this Warrant by means of a cash exercise rather than a cashless exercise.

(e) If, but only if, at any time after the Initial Exercise Date there is no effective Registration Statement registering the Warrant Shares, the Company shall use its best efforts to file a new Registration Statement on Form S-3 pursuant to General Instruction I.B.4(a)(3) (including compliance with General Instruction I.B.4(b) and I.B.4(c) as required thereby) registering the Warrant Shares issuable upon exercise of the Warrant.

4. 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 Holder would otherwise be entitled to purchase upon such exercise, the Company shall pay a cash adjustment in respect of such final fraction in an amount equal to such fraction multiplied by the Exercise Price.

5. Charges, Taxes and Expenses. Issuance of certificates for 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 certificate, all of which taxes and expenses shall be paid by the Company, and such certificates 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 certificates for 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.

6. Closing of Books. 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.

7. Transfer, Division and Combination.

(a) Subject to compliance with any applicable securities laws and the conditions set forth in Sections 1 and 7(e) hereof, this Warrant and all rights hereunder are transferable, in whole or in part, so long as the amount of Warrant Shares transferred is equal to at least 50,000 shares (on an as-exercised basis), upon surrender of this Warrant at the principal office of the Company, 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 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. A Warrant, if properly assigned, may be exercised by a new holder for the purchase of Warrant Shares without having a new Warrant issued.

(b) 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 7(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.

(c) The Company shall prepare, issue and deliver at its own expense (other than transfer taxes) the new Warrant or Warrants under this Section 7.

(d) The Company agrees to maintain, at its aforesaid office, books for the registration and the registration of transfer of the Warrants.

(e) If, at the time of the surrender of this Warrant in connection with any transfer of this Warrant, the transfer of this Warrant shall not be registered pursuant to an effective registration statement under the Securities Act and under applicable state securities or blue sky laws, the Company may require, as a condition of allowing such transfer (i) that the Holder or transferee of this Warrant, as the case may be, furnish to the Company a written opinion of counsel (which opinion shall be in form, substance and scope customary for opinions of counsel in comparable transactions) to the effect that such transfer may be made without registration under the Securities Act and under applicable state securities or blue sky laws, (ii) that the holder or transferee execute and deliver to the Company an investment letter in form and substance acceptable to the Company and (iii) that the transferee be an accredited investor as defined in Rule 501(a) promulgated under the Securities Act.

8. No Rights as Shareholder until Exercise. This Warrant does not entitle the Holder to any voting rights or other rights as a shareholder of the Company prior to the exercise hereof. Upon the surrender of this Warrant and the payment of the aggregate Exercise Price (or by means of a cashless exercise), the Warrant Shares so purchased shall be and be deemed to be issued to such Holder as the record owner of such shares as of the close of business on the later of the date of such surrender or payment.

9. Loss, Theft, Destruction or Mutilation of Warrant. 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 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.

10. Saturdays, Sundays, Holidays, etc. If the last or appointed day for the taking of any action or the expiration of any right required or granted herein shall be a Saturday, Sunday or a legal holiday, then such action may be taken or such right may be exercised on the next succeeding day not a Saturday, Sunday or legal holiday.

11. Adjustments of Exercise Price and Number of Warrant Shares. The number and kind of securities purchasable upon the exercise of this Warrant and the Exercise Price shall be subject to adjustment from time to time upon the happening of any of the following. In case the Company shall (i) pay a dividend in shares of Common Stock or make a distribution in shares of Common Stock to holders of its outstanding Common Stock, (ii) subdivide its outstanding shares of Common Stock into a greater number of shares, (iii) combine its outstanding shares of Common Stock into a smaller number of shares of Common Stock, or (iv) issue any shares of its capital stock in a reclassification of the Common Stock, then the number of Warrant Shares purchasable upon exercise of this Warrant immediately prior thereto shall be adjusted so that the Holder shall be entitled to receive the kind and number of Warrant Shares or other securities of the Company which it would have owned or have been entitled to receive had such Warrant been exercised in advance thereof. Upon each such adjustment of the kind and number of Warrant Shares or other securities of the Company which are purchasable hereunder, the Holder shall thereafter be entitled to purchase the number of Warrant Shares or other securities resulting from such adjustment at an Exercise Price per Warrant Share or other security obtained by multiplying the Exercise Price in effect immediately prior to such adjustment by the number of Warrant Shares purchasable pursuant hereto immediately prior to such adjustment and dividing by the number of Warrant Shares or other securities of the Company that are purchasable pursuant hereto immediately after such adjustment. An adjustment made pursuant to this paragraph shall become effective immediately after the effective date of such event retroactive to the record date, if any, for such event.

12. Reorganization, Reclassification, Merger, Consolidation or Disposition of Assets.

(a) In case the Company shall reorganize its capital, reclassify its capital stock, consolidate or merge with or into another corporation (where the Company is not the surviving corporation or where there is a change in or distribution with respect to the Common Stock of the Company), or sell, transfer or otherwise dispose of all or substantially all its property, assets or business to another corporation and, pursuant to the terms of such reorganization, reclassification, merger, consolidation or disposition of assets, shares of common stock of the successor or acquiring corporation, or any cash, shares of stock or other securities or property of any nature whatsoever (including warrants or other subscription or purchase rights) in addition to or in lieu of common stock of the successor or acquiring corporation (Other Property), are to be received by or distributed to the holders of Common Stock of the Company, then the Holder shall have the right thereafter to receive upon 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 Other Property receivable upon or as a result of such reorganization, reclassification, merger, consolidation or disposition of assets by a Holder of the number of shares of Common Stock for which this Warrant is exercisable immediately prior to such event. In case of any such reorganization, reclassification, merger, consolidation or disposition of assets, the successor or acquiring corporation (if other than the Company) shall expressly assume the due and punctual observance and performance of each and every covenant and condition of this Warrant to be performed and observed by the Company and all the obligations and liabilities hereunder, subject to such modifications as may be deemed appropriate (as determined in good faith by resolution of the Board of

Directors of the Company) in order to provide for adjustments of Warrant Shares for which this Warrant is exercisable which shall be as nearly equivalent as practicable to the adjustments provided for in this Section 12. For purposes of this Section 12, common stock of the successor or acquiring corporation shall include stock of such corporation of any class which is not preferred as to dividends or assets over any other class of stock of such corporation and which is not subject to redemption and shall also include any evidences of indebtedness, shares of stock or other securities which are convertible into or exchangeable for any such stock, either immediately or upon the arrival of a specified date or the happening of a specified event and any warrants or other rights to subscribe for or purchase any such stock. The foregoing provisions of this Section 12 shall similarly apply to successive reorganizations, reclassifications, mergers, consolidations or disposition of assets.

(b) Notwithstanding anything to the contrary, in the event of a consolidation or merger with or into another corporation (where the Company is not the surviving corporation), or a sale, transfer or disposition of all or substantially all of the Company's property, assets, business or capital stock to another corporation that is approved by the Company's Board of Directors and where the consideration paid to the holders of the Common Stock consists solely of cash (a Black-Scholes Takeout Event), if the consideration per share of Common Stock in any Black-Scholes Takeout Event (the Takeout Event Price) is equal to or less than the Exercise Price then in effect, then, the Company (or the successor entity to this Warrant) shall, within five Business Days after the consummation of the any such Black-Scholes Takeout Event, purchase this Warrant from the Holder by paying to the Holder, cash in an amount equal to the value of the remaining unexercised portion of this Warrant on the date of such Black-Scholes Takeout Event, which value shall be determined in accordance with the Black-Scholes option pricing model using an expected volatility equal to the 100 day historical price volatility obtained from the HVT function on Bloomberg L.P. as of the Trading Day immediately prior to the public announcement of the Black-Scholes Takeout Event.

13. [Intentionally Omitted]

14. Notice of Adjustment. Whenever the number of Warrant Shares or number or kind of securities or other property purchasable upon the exercise of this Warrant or the Exercise Price is adjusted, as herein provided, the Company shall give notice thereof to the Holder, which notice shall state the number of Warrant Shares (and other securities or property) purchasable upon the exercise of this Warrant and the Exercise Price of such Warrant Shares (and other securities or property) after such adjustment, setting forth a brief statement of the facts requiring such adjustment and setting forth the computation by which such adjustment was made.

15. Notice of Corporate Action. If at any time:

(a) the Company shall take a record of the holders of its Common Stock for the purpose of entitling them to receive a dividend or other distribution, or any right to subscribe for or purchase any evidences of its indebtedness, any shares of stock of any class or any other securities or property, or to receive any other right, or

(b) there shall be any capital reorganization of the Company, any reclassification or recapitalization of the capital stock of the Company or any consolidation or merger of the Company with, or any sale, transfer or other disposition of all or substantially all the property, assets or business of the Company to, another corporation or,

(c) there shall be a voluntary or involuntary dissolution, liquidation or winding up of the Company;

then, in any one or more of such cases, the Company shall give to Holder (i) at least 15 days prior written notice of the date on which a record date shall be selected for such dividend, distribution or right or for determining rights to vote in respect of any such reorganization, reclassification, merger, consolidation, sale, transfer, disposition, liquidation or winding up, and (ii) in the case of any such reorganization, reclassification, merger, consolidation, sale, transfer, disposition, dissolution, liquidation or winding up, at least 15 days prior written notice of the date when the same shall take place. Such notice in accordance with the foregoing clause also shall specify (A) the date on which any such record is to be taken for the purpose of such dividend, distribution or right, the date on which the holders of Common Stock shall be entitled to any such dividend, distribution or right, and the amount and character thereof, and (B) the date on which any such reorganization, reclassification, merger, consolidation, sale, transfer, disposition, dissolution, liquidation or winding up is to take place and the time, if any such time is to be fixed, as of which the holders of Common Stock shall be entitled to exchange their Warrant Shares for securities or other property deliverable upon such disposition, dissolution, liquidation or winding up. Each such written notice shall be sufficiently given if addressed to Holder at the last address of Holder appearing on the books of the Company and delivered in accordance with Section 17(d). Failure to provide such notice shall not affect the validity of any action taken in connection with such dividend, distribution, subscription or purchase rights, or proposed reorganization, reclassification, recapitalization, merger, consolidation, sale, transfer, disposition, conveyance, dissolution, liquidation or winding up.

16. Authorized Shares. The Company covenants that during the period the Warrant is outstanding, it will 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 executing stock certificates to execute and issue the necessary certificates for the 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.

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 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 (a) 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, (b) 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 (c) 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 which 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.

17. Miscellaneous.

- (a) Jurisdiction. This Warrant shall constitute a contract under the laws of New York, without regard to its conflict of law, principles or rules.
- (b) Restrictions. The Holder acknowledges that the Warrant Shares acquired upon the exercise of this Warrant, if not registered, will have restrictions upon resale imposed by state and federal securities laws.
- (c) Non-Waiver 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 Holder's rights, powers or remedies, notwithstanding all rights hereunder terminate on the Termination Date. 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 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 Holder in collecting any amounts due pursuant hereto or in otherwise enforcing any of its rights, powers or remedies hereunder.
- (d) Notices. Any notice, request or other document required or permitted to be given or delivered to the Holder by the Company shall be delivered in accordance with the notice provisions of the Purchase Agreement; provided upon any permitted assignment of this Warrant, the assignee shall promptly provide the Company with its contact information.
- (e) Limitation of Liability. No provision hereof, in the absence of any affirmative action by Holder to exercise this Warrant or purchase Warrant Shares, and no enumeration herein of the rights or privileges of Holder, shall give rise to any liability of 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.
- (f) Remedies. 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 the defense in any action for specific performance that a remedy at law would be adequate.
- (g) Successors and Assigns. 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 of the Company and the successors and permitted assigns of Holder. The provisions of this Warrant are intended to be for the benefit of all Holders from time to time of this Warrant and shall be enforceable by any such Holder or holder of Warrant Shares.
- (h) Amendment. This Warrant may be modified or amended or the provisions hereof waived with the written consent of the Company and the Holder.
- (i) Severability. 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.

(j) Headings. 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.

18. Additional Definitions.

(a) Affiliate means any Person that, directly or indirectly through one or more intermediaries, controls or is controlled by or is under common control with a Person as such terms are used in and construed under Rule 144. With respect to a Holder, any investment fund or managed account that is managed on a discretionary basis by the same investment manager as such Holder will be deemed to be an Affiliate of such Holder.

(b) Business Day means any day except Saturday, Sunday and any day which shall be a federal legal holiday or a day on which banking institutions in the State of New York are authorized or required by law or other governmental action to close.

(c) Closing Price means on any particular date (a) the last reported closing bid price per share of Common Stock on such date on the Trading Market (as reported by Bloomberg L.P. at 4:15 PM (New York time) as the last reported closing bid price for regular session trading on such day), or (b) if there is no such price on such date, then the closing bid price on the Trading Market on the date nearest preceding such date (as reported by Bloomberg L.P. at 4:15 PM (New York time) as the closing bid price for regular session trading on such day), or (c) if the Common Stock is not then listed or quoted on the Trading Market and if prices for the Common Stock are then reported in the pink sheets published by the Pink Sheets LLC (formerly the National Quotation Bureau Incorporated) (or a similar organization or agency succeeding to its functions of reporting prices), the most recent bid price per share of the Common Stock so reported, or (d) if the shares of Common Stock are not then publicly traded the fair market value of a share of Common Stock as determined in good faith by the Company's Board of Directors.

(d) Exchange Act means the Securities Exchange Act of 1934, as amended.

(e) Investor means a purchaser signatory to the Purchase Agreement (or his, her or its successors or assigns).

(f) Person means an individual or corporation, partnership, trust, incorporated or unincorporated association, joint venture, limited liability company, joint stock company, government (or an agency or subdivision thereof) or other entity of any kind.

(g) Purchase Agreement means collectively those certain Subscription Agreements dated August 24, 2007 between the Company and the purchasers signatory thereto.

(h) Registration Statement means a registration statement filed with the Securities and Exchange Commission.

(i) Rule 144 means Rule 144 promulgated by the Securities and Exchange Commission pursuant to the Securities Act, as such Rule may be amended from time to time, or any similar rule or regulation hereafter adopted by the Securities and Exchange Commission having substantially the same effect as such Rule.

(j) Securities Act means the Securities Act of 1933, as amended.

(k) Trading Day means (A) a day on which the Common Stock is traded on a Trading Market (as defined below), or (B) if the Common Stock is not listed on a Trading Market, a day on which the Common Stock is traded on the over the counter market, as reported by the OTC Bulletin Board, or (C) if the Common Stock is not quoted on the OTC Bulletin Board, a day on which the Common Stock is quoted in the pink sheets published by the Pink Sheets LLC (formerly the National Quotation Bureau Incorporated) (or any similar organization or agency succeeding to its functions of reporting prices); provided, that in the event that the Common Stock is not listed or quoted as set forth in (A), (B) and (C) hereof, then Trading Day shall mean a Business Day.

(l) Trading Market means the following markets or exchanges on which the Common Stock is listed or quoted for trading on the date in question: The American Stock Exchange, the New York Stock Exchange, the NASDAQ Global Select Market, the NASDAQ Global Market or the NASDAQ Capital Market.

IN WITNESS WHEREOF, the Company has caused this Warrant to be executed by its officer thereunto duly authorized.

Dated: August 29, 2007

CORTEX PHARMACEUTICALS, INC.

By:
Name:
Title:

NOTICE OF EXERCISE

To: Cortex Pharmaceuticals, Inc.

(1) The undersigned hereby elects to purchase _____ Warrant Shares of Cortex Pharmaceuticals, Inc. pursuant to the terms of the attached Warrant (only if exercised in full), and tenders herewith payment of the exercise price in full, together with all applicable transfer taxes, if any.

(2) Payment shall take the form of (check applicable box):

“ in lawful money of the United States; or

“ the cancellation of such number of Warrant Shares as is necessary, in accordance with the formula set forth in subsection 3(d), to exercise this Warrant with respect to the maximum number of Warrant Shares purchasable pursuant to the cashless exercise procedure set forth in subsection 3(d).

(3) Please issue a certificate or certificates representing said Warrant Shares in the name of the undersigned or in such other name as is specified below:

The Warrant Shares shall be delivered to the following:

(4) Accredited Investor. The undersigned is an accredited investor as defined in Regulation D promulgated under the Securities Act of 1933, as amended.

[PURCHASER]

By:
Name:
Title:

Dated:

ASSIGNMENT FORM

(To assign the foregoing warrant, execute this form
and supply required information.

Do not use this form to exercise the warrant.)

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

whose address is

Dated: _____, ____

Holder's Signature:

Holder's Address:

Signature Guaranteed:

NOTE: The signature to this Assignment Form must correspond with the name as it appears on the face of the Warrant, without alteration or enlargement or any change whatsoever, and must be guaranteed by a bank or trust company. Officers of corporations and those acting in a fiduciary or other representative capacity should file proper evidence of authority to assign the foregoing Warrant.