

CALCULATION OF REGISTRATION FEE

| Title of securities to be registered | Amount to be registered (1)(2) | Proposed maximum offering price per share (3) | Proposed maximum aggregate offering price (3) | Amount of registration fee |
|---|--------------------------------|---|---|----------------------------|
| 2017 Equity Incentive Plan Common Stock, par value \$0.001 per share | 8,793,960 shares | \$3.915 | \$34,428,353.40 | \$4,286.33 |

(1)

Pursuant to Rule 416(a) under the Securities Act of 1933, as amended (the "Securities Act"), this Registration Statement shall also cover any additional shares of the Registrant's Common Stock ("Common Stock") that become issuable under the ChromaDex Corporation 2017 Equity Incentive Plan (the "2017 Plan") by reason of any stock dividend, stock split, recapitalization or other similar transaction effected without receipt of consideration that increases the number of outstanding shares of Common Stock.

(2)

Represents 3,000,000 shares of Common Stock and up to 5,793,960 shares of Common Stock subject to outstanding stock awards granted under the ChromaDex Corporation Second Amended and Restated 2007 Equity Incentive Plan, as amended and the ChromaDex, Inc. 2000 Non-Qualified Incentive Stock Option Plan.

(3)

This estimate is made pursuant to rule 457(c) and Rule 457(h)(1) of the Securities Act solely for purposes of calculating the registration fee. The offering price per share and aggregate offering price are based upon the average of the high and low prices of the Common Stock on October 26, 2017, as reported on the NASDAQ Capital Market

PART I

INFORMATION REQUIRED IN THE SECTION 10(a) PROSPECTUS

ITEM 1. PLAN INFORMATION.

Not required to be filed with this Registration Statement.

ITEM 2. REGISTRANT INFORMATION AND EMPLOYEE PLAN ANNUAL INFORMATION.

Not required to be filed with this Registration Statement.

PART II

INFORMATION REQUIRED IN THE REGISTRATION STATEMENT

ITEM 3. INCORPORATION OF DOCUMENTS BY REFERENCE.

The following documents filed by ChromaDex Corporation (the “Registrant”) with the Securities and Exchange Commission (the “SEC”) are incorporated by reference into this Registration Statement:

(a)

The Registrant’s Annual Report on Form 10-K for the fiscal year ended December 31, 2016, filed with the SEC on March 16, 2017;

(b)

The Registrant’s Definitive Proxy Statement on Schedule 14A filed with the SEC on May 1, 2017;

(c)

The Registrant’s Quarterly Reports on Form 10-Q for the quarterly periods ended April 1, 2017 and July 1, 2017, filed with the SEC on May 11, 2017 and August 10, 2017, respectively;

(d)

The Registrant’s Current Reports on Form 8-K filed with the SEC on January 6, 2017, February 17, 2017, February 23, 2017, March 28, 2017, April 19, 2017, April 27, 2017, May 2, 2017, May 25, 2017, June 12, 2017, June 23, 2017, August 14, 2017, August 21, 2017, August 23, 2017, September 6, 2017 and October 10, 2017; and

(e)

The description of the Common Stock included in the Registrant’s Form 8-A filed with the SEC on April 21, 2016, including any amendments or reports filed for the purpose of updating such description.

All documents, reports, and definitive proxy or information statements filed by the Registrant pursuant to Sections 13(a), 13(c), 14 or 15(d) of the Securities Exchange Act of 1934, as amended (the “Exchange Act”) after the date of this Registration Statement and prior to the filing of a post-effective amendment which indicates that all securities offered hereby have been sold or which deregisters all securities then remaining unsold, shall be deemed to be incorporated by reference into this Registration Statement and to be a part hereof from the date of filing of such documents; provided, however, that documents, reports and definitive proxy or information statements, or portions thereof, which are furnished and not filed in accordance with the rules of the SEC shall not be deemed incorporated by reference into this Registration Statement. Any statement contained in a document incorporated or deemed to be incorporated herein by reference shall be deemed to be modified or superseded for purposes of this Registration Statement to the extent that a statement herein or in any other subsequently filed document which also is or is deemed to be incorporated by reference herein modifies or supersedes that statement. Any such statement so modified or superseded shall not constitute a part of this Registration Statement, except as so modified or superseded.

ITEM 4. DESCRIPTION OF SECURITIES.

Not applicable.

ITEM 5. INTERESTS OF NAMED EXPERTS AND COUNSEL.

Not applicable.

ITEM 6. INDEMNIFICATION OF DIRECTORS AND OFFICERS.

Section 145 of the Delaware General Corporation Law (the “DGCL”) empowers a Delaware corporation to indemnify any persons who are, or are threatened to be made, parties to any threatened, pending, or completed legal action, suit, or proceeding, whether civil, criminal, administrative, or investigative (other than an action by or in the right of such corporation), by reason of the fact that such person was an officer or director of such corporation, or is or was serving at the request of such corporation as a director, officer, employee, or agent of another corporation or enterprise. The indemnity may include expenses (including attorneys’ fees), judgments, fines, and amounts paid in settlement actually and reasonably incurred by such person in connection with such action, suit, or proceeding, provided that such officer or director acted in good faith and in a manner he reasonably believed to be in or not opposed to the corporation’s best interests, and, for criminal proceedings, had no reasonable cause to believe his conduct was illegal. A Delaware corporation may indemnify officers and directors in an action by or in the right of the corporation under the same conditions, except that no indemnification is permitted without judicial approval if the officer or director is adjudged to be liable to the corporation in the performance of his duty. Where an officer or director is successful on the merits or otherwise in the defense of any action referred to above, the corporation must indemnify him against the expenses which such officer or director actually and reasonably incurred.

The Registrant’s bylaws provide that it will indemnify its directors and officers to the fullest extent permitted by Delaware law, except that no indemnification will be provided to a director, officer, employee, or agent if the indemnification sought is in connection with a proceeding initiated by such person without the authorization of the board of directors. The bylaws also provide that the right of directors and officers to indemnification shall be a contract right and shall not be exclusive of any other right now possessed or hereafter acquired under any statute, provision of the certificate of incorporation, bylaw, agreement, vote of stockholders or disinterested directors or otherwise. The bylaws also permit the Registrant to secure insurance on behalf of any officer, director, employee, or other agent for any liability arising out of his or her actions in such capacity, regardless of whether the bylaws would permit indemnification of any such liability.

In accordance with Section 102(b)(7) of the DGCL, the Registrant’s certificate of incorporation provides that directors shall not be personally liable for monetary damages for breaches of their fiduciary duty as directors except for (i) breaches of their duty of loyalty to the Registrant or its stockholders, (ii) acts or omissions not in good faith or which involve intentional misconduct or knowing violations of law, (iii) certain transactions under Section 174 of the DGCL (unlawful payment of dividends or unlawful stock purchases or redemptions), or (iv) transactions from which a director derives an improper personal benefit. The effect of this provision is to eliminate the personal liability of directors for monetary damages or actions involving a breach of their fiduciary duty of care, including any actions involving gross negligence.

In addition, the Registrant has entered into indemnification agreements with its directors and officers that require the Registrant, among other things, to indemnify them against certain liabilities that may arise by reason of their status or service, so long as the indemnitee acted in good faith and in a manner the indemnitee reasonably believed to be in or not opposed to the best interests of the Registrant, and, with respect to any criminal action or proceeding, the indemnitee had no reasonable cause to believe his or her conduct was unlawful. The Registrant also maintains director and officer liability insurance to insure its directors and officers against the cost of defense, settlement or payment of a judgment under specified circumstances.

Insofar as indemnification for liabilities arising under the Securities Act may be permitted to directors, officers or persons controlling the Registrant pursuant to the foregoing provisions, the Registrant has been informed that in the opinion of the SEC such indemnification is against public policy as expressed in the Securities Act and is therefore unenforceable.

ITEM 7. EXEMPTION FROM REGISTRATION CLAIMED.

Not applicable.

ITEM 8. EXHIBITS.

| Exhibit Number | Description |
|----------------|--|
| <u>4.1</u> | Amended and Restated Certificate of Incorporation of the Registrant (incorporated by reference from, and filed as Exhibit 3.1 to the Registrant's Annual Report on Form 10-K (File No. 001-37752) filed with the SEC on March 16, 2017). |
| <u>4.2</u> | Certificate of Amendment to the Certificate of Incorporation of the Registrant (incorporated by reference from, and filed as Exhibit 3.1 to the Registrant's Current Report on Form 8-K (File No. 000-53290) filed with the SEC on April 12, 2016). |
| <u>4.3</u> | Bylaws of the Registrant (incorporated by reference from, and filed as Exhibit 3.2 to the Registrant's Current Report on Form 8-K (File No. 333-140056) filed with the SEC on June 24, 2008). |
| <u>4.4</u> | Amendment to Bylaws of the Registrant (incorporated by reference from, and filed as Exhibit 3.1 to the Registrant's Current Report on Form 8-K (File No. 001-37752) filed with the SEC on July 19, 2016). |
| <u>4.5</u> | Form of Stock Certificate representing shares of the Registrant's Common Stock (incorporated by reference from, and filed as Exhibit 4.1 of the Registrant's Annual Report on Form 10-K (File No. 000-53290) filed with the SEC on April 3, 2009). |
| <u>4.6</u> | Investor's Rights Agreement, effective as of December 31, 2005, by and between The University of Mississippi Research Foundation and the Registrant (incorporated by reference from, and filed as Exhibit 4.1 to the Registrant's Current Report on Form 8-K (File No. 333-140056) filed with the SEC on June 24, 2008). |
| <u>4.7</u> | Tag-Along Agreement effective as of December 31, 2005, by and among the Registrant, Frank Louis Jaksch, Snr. & Maria Jaksch, Trustees of the Jaksch Family Trust, Margery Germain, Lauren Germain, Emily Germain, Lucie Germain, Frank Louis Jaksch, Jr., and the University of Mississippi Research Foundation (incorporated by reference from, and filed as Exhibit 4.2 to the Registrant's Current Report on Form 8-K (File No. 333-140056) filed with the SEC on June 24, 2008). |
| <u>4.8</u> | Form of Stock Certificate representing shares of the Registrant's Common Stock (new design effective as of January 1, 2016, incorporated by reference from and filed as Exhibit 4.4 to the Registrant's Annual Report on Form 10-K (File No. 000-53290) filed with the SEC on March 17, 2016). |
| <u>5.1</u> | Opinion of Cooley LLP. |
| <u>23.1</u> | Consent of Marcum LLP. |
| <u>23.2</u> | Consent of Cooley LLP. Reference is made to Exhibit 5.1. |
| <u>24.1</u> | Power of Attorney. Reference is made to the signature page hereto. |
| <u>99.1</u> | ChromaDex Corporation 2017 Equity Incentive Plan and Forms of Option Grant Notice, Option Agreement and Notice of Exercise thereunder (incorporated by reference from, and filed as Exhibit 99.1 to the Registrant's Current Report on Form 8-K (File No. 001-37752) filed with the SEC on June 23, 2017). |

ITEM 9. UNDERTAKINGS.

(a)

The undersigned Registrant hereby undertakes:

(1)

To file, during any period in which offers or sales are being made, a post-effective amendment to this Registration Statement:

(i)

To include any prospectus required by Section 10(a)(3) of the Securities Act;

(ii)

To reflect in the prospectus any facts or events arising after the effective date of the Registration Statement (or the most recent post-effective amendment thereof) which, individually or in the aggregate, represent a fundamental change in the information set forth in the Registration Statement. Notwithstanding the foregoing, any increase or decrease in volume of securities offered (if the total dollar value of securities offered would not exceed that which was registered) and any deviation from the low or high end of the estimated maximum offering range may be reflected in the form of prospectus filed with the SEC pursuant to Rule 424(b) if, in the aggregate, the changes in volume and price represent no more than a 20% change in the maximum aggregate offering price set forth in the "Calculation of Registration Fee" table in the effective Registration Statement;

(iii)

To include any material information with respect to the plan of distribution not previously disclosed in the Registration Statement or any material change to such information in the Registration Statement;

Provided, however, that paragraphs (a)(1)(i) and (a)(1)(ii) do not apply if the Registration Statement is on Form S-8, and the information required to be included in a post-effective amendment by those paragraphs is contained in reports filed with or furnished to the SEC by the Registrant pursuant to Section 13 or Section 15(d) of the Exchange Act that are incorporated by reference in the Registration Statement; and

(2)

That, for the purpose of determining any liability under the Securities Act, each such post-effective amendment shall be deemed to be a new registration statement relating to the securities offered therein, and the offering of such securities at that time shall be deemed to be the initial bona fide offering thereof.

(3)

To remove from registration by means of a post-effective amendment any of the securities being registered which remain unsold at the termination of the offering.

(b)

The undersigned Registrant hereby undertakes that, for purposes of determining any liability under the Securities Act, each filing of the Registrant's annual report pursuant to Section 13(a) or Section 15(d) of the Exchange Act (and,

where applicable, each filing of an employee benefit plan's annual report pursuant to Section 15(d) of the Exchange Act) that is incorporated by reference in the Registration Statement shall be deemed to be a new registration statement relating to the securities offered therein, and the offering of such securities at that time shall be deemed to be the initial bona fide offering thereof.

(c)

Insofar as indemnification for liabilities arising under the Securities Act may be permitted to directors, officers and controlling persons of the Registrant pursuant to the foregoing provisions, or otherwise, the Registrant has been advised that in the opinion of the SEC such indemnification is against public policy as expressed in the Securities Act and is, therefore, unenforceable. In the event that a claim for indemnification against such liabilities (other than the payment by the Registrant of expenses incurred or paid by a director, officer or controlling person of the Registrant in the successful defense of any action, suit or proceeding) is asserted by such director, officer or controlling person in connection with the securities being registered, the Registrant will, unless in the opinion of its counsel the matter has been settled by controlling precedent, submit to a court of appropriate jurisdiction the question whether such indemnification by it is against public policy as expressed in the Securities Act and will be governed by the final adjudication of such issue.

SIGNATURES

Pursuant to the requirements of the Securities Act of 1933, as amended, the Registrant certifies that it has reasonable grounds to believe that it meets all of the requirements for filing on Form S-8 and has duly caused this Registration Statement to be signed on its behalf by the undersigned, thereunto duly authorized, in the City of Irvine, State of California, on October 31, 2017.

CHROMADEX
CORPORATION

By: /s/ Frank L. Jaksch Jr.
Frank L. Jaksch Jr.
Chief Executive Officer

POWER OF ATTORNEY

KNOW ALL BY THESE PRESENTS, that each person whose signature appears below constitutes and appoints Frank L. Jaksch Jr. and Kevin M. Farr, and each of them, as his or her true and lawful attorneys-in-fact and agents, each with the full power of substitution, for him or her and in his or her name, place or stead, in any and all capacities, to sign any and all amendments to this Registration Statement (including post-effective amendments), and to file the same, with exhibits thereto and other documents in connection therewith, with the Securities and Exchange Commission, granting unto said attorneys-in-fact and agents, and each of them, full power and authority to do and perform each and every act and thing requisite and necessary to be done in and about the premises, as fully to all intents and purposes as he or she might or could do in person, hereby ratifying and confirming all that said attorneys-in-fact and agents, or their substitute or substitutes, may lawfully do or cause to be done by virtue hereof.

Pursuant to the requirements of the Securities Act of 1933, as amended, this Registration Statement has been signed by the following persons in the capacities and on the dates indicated.

| Signature | Title | Date |
|--|---|------------------|
| /s/ FRANK L. JAKSCH JR. Frank L. Jaksch Jr. | Chief Executive Officer and Director (Principal Executive Officer) | October 31, 2017 |
| /s/ KEVIN M. FARR Kevin M. Farr | Chief Financial Officer and Secretary (Principal Financial and Accounting Officer) | October 31, 2017 |
| /s/ ROBERT FRIED Robert Fried | President, Chief Strategy Officer and Director | October 31, 2017 |
| /s/ STEPHEN ALLEN Stephen Allen | Chairman of the Board and Director | October 31, 2017 |
| /s/ STEPHEN BLOCK Stephen Block | Director | October 31, 2017 |
| /s/ JEFF BAXTER Jeff Baxter | Director | October 31, 2017 |

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| /s/ KURT GUSTAFSON Kurt Gustafson | Director | October 31, 2017 |
| /s/ TONY LAU Tony Lau | Director | October 31, 2017 |
| /s/ STEVEN RUBIN Steven Rubin | Director | October 31, 2017 |
| /s/ WENDY YU Wendy Yu | Director | October 31, 2017 |