

**UNITED STATES
SECURITIES AND EXCHANGE COMMISSION**
Washington, D.C. 20549

**FORM S-3
REGISTRATION STATEMENT
UNDER
THE SECURITIES ACT OF 1933**

Sientra, Inc.

(Exact name of registrant as specified in its charter)

Delaware
(State or other jurisdiction of
incorporation or organization)

20-5551000
(I.R.S. Employer
Identification Number)

420 South Fairview Avenue, Suite 200
Santa Barbara, CA 93117
(805) 562-3500

(Address, including zip code, and telephone number, including area code, of registrant's principal executive offices)

Jeffrey Nugent
Chief Executive Officer
Sientra, Inc.

420 South Fairview Avenue, Suite 200
Santa Barbara, CA 93117
(805) 562-3500

(Name, address, including zip code, and telephone number, including area code, of agent for service)

With a copy to:

Paul Little
Chief Financial Officer and Treasurer
Sientra, Inc.
420 South Fairview Avenue, Suite 200
Santa Barbara, CA 93117
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Approximate date of commencement of proposed sale to the public: From time to time after the effective date of this Registration Statement.

If the only securities being registered on this Form are being offered pursuant to dividend or interest reinvestment plans, please check the following box.

If any of the securities being registered on this Form are to be offered on a delayed or continuous basis pursuant to Rule 415 under the Securities Act of 1933, other than securities offered only in connection with dividend or interest reinvestment plans, check the following box.

If this Form is filed to register additional securities for an offering pursuant to Rule 462(b) under the Securities Act, please check the following box and list the Securities Act registration statement number of the earlier effective registration statement for the same offering.

If this Form is a post-effective amendment filed pursuant to Rule 462(c) under the Securities Act, check the following box and list the Securities Act registration statement number of the earlier effective registration statement for the same offering.

If this form is a registration statement pursuant to General Instruction I.D. or a post-effective amendment thereto that shall become effective upon filing with the Commission pursuant to Rule 462(e) under the Securities Act, check the following box.

If this form is a post-effective amendment to a registration statement filed pursuant to General Instruction I.D. filed to register additional securities or additional classes of securities pursuant to Rule 413(b) under the Securities Act, check the following box.

Indicate by check mark whether the registrant is a large accelerated filer, an accelerated filer, a non-accelerated filer, a smaller reporting company or an emerging growth company. See definition of "large accelerated filer," "accelerated filer," "smaller reporting company" and "emerging growth company" in Rule 12b-2 of the Exchange Act.

Large accelerated filer
Non-accelerated filer

Accelerated filer
Smaller reporting company
Emerging growth company

If an emerging growth company, indicate by check mark if the registrant has elected not to use the extended transition period for complying with any new or revised financial accounting standards provided pursuant to Section 7(a)(2)(B) of Securities Act.

CALCULATION OF REGISTRATION FEE

Title of Securities to be Registered	Amount To Be Registered (1)	Proposed Maximum Offering Price Per Share (2)	Proposed Maximum Aggregate Offering Price (2)	Amount of Registration Fee (2)
Common Stock, par value \$0.01 per share	607,442 shares	\$8.20	\$4,981,024.40	\$646.54
Total	607,442 shares	\$8.20	\$4,981,024.40	\$646.54

- (1) This Registration Statement shall also cover any additional shares of common stock which become issuable by reason of any stock dividend, stock split or other similar transaction effected without the receipt of consideration which results in an increase in the number of the outstanding shares of common stock of the registrant.
- (2) Estimated solely for the purpose of determining the registration fee pursuant to Rule 457(c) of the rules and regulations under the Securities Act of 1933, as amended, based upon the average of the high and low prices for the registrant's common stock as reported on the NASDAQ Global Market on December 17, 2019.

The registrant hereby amends this registration statement on such date or dates as may be necessary to delay its effective date until the registrant shall file a further amendment which specifically states that this registration statement shall thereafter become effective in accordance with Section 8(a) of the Securities Act of 1933, as amended, or until the registration statement shall become effective on such date as the Securities and Exchange Commission, acting pursuant to said Section 8(a), may determine.

The information in this prospectus is not complete and may be changed. We may not sell these securities until the registration statement filed with the Securities and Exchange Commission is effective. This prospectus is not an offer to sell these securities and it is not soliciting an offer to buy these securities in any state where the offer or sale is not permitted.

Subject to completion, dated December 23, 2019

PROSPECTUS

sientra.
SIENTRA, INC.
607,442 Shares
Common Stock

This prospectus relates to an aggregate of up to 607,442 shares of our common stock, par value \$0.01 per share, which may be offered for sale from time to time by the selling stockholder, Vesta Intermediate Funding, Inc. (Vesta). We will not receive any of the proceeds from any sale of our common stock by the selling stockholder.

In November 2019, we entered into an asset purchase agreement (Purchase Agreement) with Vesta. Pursuant to the Purchase Agreement, we purchased certain assets, assumed certain liabilities and obtained a non-exclusive, royalty-free, perpetual, irrevocable, assignable, sublicensable, and worldwide license to certain intellectual property owned by Vesta. As part of the consideration, we agreed that, in the event the closing price of our common stock equals or exceeds a certain agreed upon price target (First Milestone Price Target) on any date through November 7, 2023, we will issue Vesta 303,721 shares of common stock (First Milestone Shares) within five business days of such date, and in the event the closing price of our common stock equals or exceeds a certain agreed upon price target (Second Milestone Price Target) on any date through November 7, 2023, we will issue Vesta 303,721 shares of common stock (Second Milestone Shares) within five business days of such date. We refer to the First Milestone Shares and the Second Milestone shares together as the Shares.

The Shares are subject to a contractual lock-up on transfers for a period continuing to and including May 7, 2021 and November 7, 2022 for the First Milestone Shares and Second Milestone Shares, respectively. In addition, the lock-up restricts Vesta from selling more than one-third of the First Milestone Shares or Second Milestone Shares in any thirty day period. For more information, refer to the section of this prospectus entitled "Selling Stockholder."

The selling stockholder may offer shares of our common stock from time to time in a number of different ways and at varying prices. For more information on possible methods of offer and sale by the selling stockholder, refer to the section of this prospectus entitled "Plan of Distribution." If any underwriters, dealers or agents are involved in the sale of any of the shares of common stock, their names, and any applicable purchase price, fee, commission or discount arrangement between or among them will be set forth, or will be calculable from the information set forth, in the applicable prospectus supplement. We have agreed to bear all of the expenses incurred in connection with the registration of these shares. The selling stockholder will pay or assume brokerage commissions and similar charges incurred for the sale of shares of our common stock.

The information in this prospectus is accurate as of the date on the front cover. Information incorporated by reference into this prospectus is accurate as of the date of the document from which the information is incorporated.

You should not assume that information contained in or incorporated by reference into this prospectus is accurate as of any other date.

Our common stock is listed on the NASDAQ Global Market under the symbol "SIEN." On December 20, 2019, the closing price of our common stock was \$8.37 per share.

Investing in our securities involves risks. See the section of this prospectus entitled "[Risk Factors](#)" and contained in any applicable prospectus supplement and any related free writing prospectus and under similar sections in the other documents that are incorporated by reference into this prospectus.

Neither the Securities and Exchange Commission nor any state securities commission has approved or disapproved of these securities or determined if this prospectus is truthful or complete. Any representation to the contrary is a criminal offense.

The date of this prospectus is _____, 2019

TABLE OF CONTENTS

	<u>Page</u>
ABOUT THIS PROSPECTUS	1
SUMMARY	2
RISK FACTORS	4
SPECIAL NOTE REGARDING FORWARD-LOOKING INFORMATION	5
USE OF PROCEEDS	6
DESCRIPTION OF CAPITAL STOCK	7
SELLING STOCKHOLDER	11
PLAN OF DISTRIBUTION	13
LEGAL MATTERS	17
EXPERTS	17
WHERE YOU CAN FIND ADDITIONAL INFORMATION	17
INCORPORATION OF CERTAIN INFORMATION BY REFERENCE	17

ABOUT THIS PROSPECTUS

This prospectus is a part of a registration statement that we filed with the Securities and Exchange Commission (SEC) utilizing a “shelf” registration process. This prospectus relates to the possible resale by the selling stockholder of an aggregate of up to 607,442 shares of our common stock from time to time in one or more offerings.

The selling stockholder may offer and sell, from time to time, an aggregate of up to 607,442 shares of our common stock under the prospectus. In some cases, the selling stockholder will also be required to provide a prospectus supplement containing specific information about the selling stockholder and the terms on which they are offering and selling our common stock. We may also add, update or change in a prospectus supplement any information contained in this prospectus. To the extent that any statement made in a prospectus supplement is inconsistent with statements made in this prospectus, the statements made in this prospectus will be deemed modified or superseded by those made in the prospectus supplement. Before you make any investment decision, you should read this prospectus, any accompanying prospectus supplement, any post-effective amendments to the registration statement of which this prospectus is a part, the documents incorporated by reference in such registration statement, and the additional information described under “Where You Can Find More Information; Incorporation by Reference.”

Neither we nor the selling stockholder have authorized any broker, dealer or other person to give any information or to make any representation other than those contained or incorporated by reference in this prospectus and any accompanying prospectus supplement. You must not rely upon any information or representation not contained or incorporated by reference in this prospectus or any accompanying prospectus supplement. This prospectus and any accompanying prospectus supplement do not constitute an offer to sell or the solicitation of an offer to buy any securities other than the registered securities to which they relate, nor do this prospectus and any accompanying prospectus supplement constitute an offer to sell or the solicitation of an offer to buy securities in any jurisdiction to any person to whom it is unlawful to make such offer or solicitation in such jurisdiction. You should not assume that the information contained in this prospectus and any accompanying prospectus supplement is accurate on any date subsequent to the date set forth on the front of the document or that any information incorporated by reference is correct on any date subsequent to the date of the document incorporated by reference, even though this prospectus and any accompanying prospectus supplement is delivered or securities are sold on a later date. Our business, financial condition, results of operations and prospects may have changed since those dates.

“Sientra”, “Sientra Platinum20”, “Sientra Full Circle”, “OPUS”, “Allox”, “Allox2”, “BIOCORNEUM”, “Dermaspan”, “Softspan”, “Silishield”, “miraDry”, “Miramar Labs”, “miraDry and Design”, “miraDry Fresh”, “bioTip”, “The Sweat Stops Here”, “No Sweat No Stress”, “Sweat Less Live More”, “Drop Design”, “miraWave”, “miraSmooth”, “miraFresh”, “freshRewards”, “freshNet”, “freshEquity”, and “ML Stylized mark” are trademarks of our company. Our logo and our other trade names, trademarks and service marks appearing in this document are our property. Other trade names, trademarks and service marks appearing in this document are the property of their respective owners. Solely for convenience, our trademarks and trade names referred to in the document, appear without the TM or the (R) symbol, but those references are not intended to indicate, in any way, that we will not assert, to the fullest extent under applicable law, our rights, or the rights of the applicable licensor to these trademarks and trade names.

SUMMARY

This summary highlights selected information from this prospectus and the documents incorporated herein by reference and does not contain all of the information that you need to consider in making your investment decision. You should carefully read the entire prospectus, including the risks of investing in our securities discussed under "Risk Factors" beginning on page 4 of this prospectus, the information incorporated herein by reference, including our financial statements, and the exhibits to the registration statement of which this prospectus is a part. All references in this prospectus to "we," "us," "our," "Sientra," the "Company" and similar designations refer to Sientra, Inc. and its consolidated subsidiaries, unless otherwise indicated or as the context otherwise requires.

Business Overview

We are a medical aesthetics company committed to making a difference in patients' lives by enhancing their body image, growing their self-esteem and restoring their confidence. We were founded to provide greater choices to board certified plastic surgeons and patients in need of medical aesthetics products. We have developed a broad portfolio of products with technologically differentiated characteristics, supported by independent laboratory testing and strong clinical trial outcomes. We sell our breast implants and tissue expanders exclusively to board certified and board admissible plastic surgeons and tailor our customer service offerings to their specific needs, which we believe helps secure their loyalty and confidence.

On June 11, 2017, we entered into a Merger Agreement with miraDry (formerly Miramar Labs) pursuant to which we commenced a tender offer to purchase all of the outstanding shares of miraDry's common stock. Pursuant to the transaction, which closed on July 25, 2017 we added the miraDry System, the only FDA cleared device to reduce underarm sweat, odor and hair of all colors to our aesthetics portfolio. Following our acquisition of miraDry in July 2017, we began selling the miraDry System and bioTips. As a result of the miraDry acquisition, we determined that we will conduct our business in two operating segments: Breast Products and miraDry. The Breast Products segment focuses on sales of our breast implants, tissue expanders and scar management products under the brands OPUS, AlloX2, Dermaspan, Softspan and BIOCORNEUM. The miraDry segment focuses on sales of the miraDry System, consisting of a console and a handheld device which uses consumable single-use bioTips.

We sell both our Breast Products and miraDry products in the U.S. through a direct sales organization, which as of September 30, 2019, consisted of 101 employees, including 86 sales representatives and 15 sales managers. Additionally, we also sell our miraDry System in several international markets where we leverage a combination of distributor relationships and direct sales efforts. As of September 30, 2019 our international operations were supported by 7 sales representatives and 4 sales managers, as well as a number of consultants supporting both direct sales efforts and distributor relationships.

We have two reporting segments: Breast Product and miraDry®. The Breast Product segment focuses on sales of our breast implants, tissue expanders and scar management products under the brands Sientra®, AlloX2®, Dermaspan™, Softspan™ and BIOCORNEUM®. The miraDry® segment focuses on sales of the miraDry® System, consisting of a console and a handheld device which uses consumable single-use bioTips™.

Corporate Information

We incorporated in Delaware on August 29, 2003 under the name Juliet Medical, Inc. and subsequently changed our name to Sientra, Inc. in April 2007. Our principal executive offices are located at 420 South Fairview Avenue, Suite 200, Santa Barbara, California, 93117, and our telephone number is (805) 562-3500. Our website is located at www.sientra.com, and our investor relations website is located at <http://investors.sientra.com>. The information found on our website is not part of this prospectus.

THE OFFERING

Securities that may be Offered by the Selling Stockholder	Up to an aggregate of 607,442 shares of our common stock. See the section of this prospectus entitled “Selling Stockholder”.
Use of Proceeds	We will not receive any of the proceeds from the sale or other disposition of shares of our common stock by the selling stockholders pursuant to this prospectus. See the section of this prospectus entitled “Use of Proceeds”.
NASDAQ Global Select Market Symbol	SIEN
Risk Factors	See the section of this prospectus entitled “Risk Factors”.

On November 7, 2019 (the “Closing Date”), we entered into an Asset Purchase Agreement (the “Purchase Agreement”) with Vesta, pursuant to which we purchased certain assets, assumed certain liabilities and obtained a non-exclusive, royalty-free, perpetual, irrevocable, assignable, sublicensable, and worldwide license to certain intellectual property owned by Vesta (the “Vesta Acquisition”). In partial consideration of the Vesta Acquisition, we agreed that, in the event the closing price of our common stock equals or exceeds a certain agreed upon price target (the “First Milestone Price Target”) on any date through November 7, 2023, we will issue Vesta 303,721 shares of common stock (the “First Milestone Shares”) within five business days of such date, and in the event the closing price of our common stock equals or exceeds a certain agreed upon price target (the “Second Milestone Price Target”) on any date through November 7, 2023, we will issue Vesta 303,721 shares of common stock (the “Second Milestone Shares”) within five business days of such date.

The filing of this shelf registration statement is being made pursuant to the Purchase Agreement. For more information, refer to the section of this prospectus entitled “Selling Stockholder.”

RISK FACTORS

Investment in our securities involves risks. Prior to making a decision about investing in our securities, you should consider carefully all of the information included and incorporated by reference or deemed to be incorporated by reference in this prospectus or the applicable prospectus supplement, including the risk factors incorporated by reference herein from our Annual Report on Form 10-K for the year ended December 31, 2018, as supplemented by our Quarterly Reports on Form 10-Q for the quarters ended March 31, 2019, June 30, 2019 and September 30, 2019, as updated by annual, quarterly and other reports and documents we file with the Securities and Exchange Commission, or the SEC, after the date of this prospectus and that are incorporated by reference herein or in the applicable prospectus supplement. Each of these risk factors could have a material adverse effect on our business, results of operations, financial position or cash flows, which may result in the loss of all or part of your investment.

SPECIAL NOTE REGARDING FORWARD-LOOKING INFORMATION

This prospectus and the documents incorporated herein by reference contain forward-looking statements within the meaning of the Private Securities Litigation Reform Act of 1995. These statements are based on our management's current beliefs, expectations and assumptions about future events, conditions and results and on information currently available to us. Discussions containing these forward-looking statements may be found, among other places, in the Sections entitled "Business Overview," "Risk Factors" and "Management's Discussion and Analysis of Financial Condition and Results of Operations" incorporated by reference from our most recent Annual Report on Form 10-K and in our Quarterly Report on Form 10-Q, as well as any amendments thereto, filed with the SEC. This prospectus and the documents incorporated by reference herein also contain estimates and other statistical data made by independent parties and by us relating to market size and growth and other data about our industry. This data involves a number of assumptions and limitations, and you are cautioned not to give undue weight to such estimates. In addition, projections, assumptions and estimates of our future performance and the future performance of the markets in which we operate are necessarily subject to a high degree of uncertainty and risk.

All statements, other than statements of historical fact, included or incorporated herein regarding our strategy, future operations, financial position, future revenues, projected costs, plans, prospects and objectives are forward-looking statements. Words such as "expect," "anticipate," "intend," "plan," "believe," "seek," "estimate," "think," "may," "could," "will," "would," "should," "continue," "potential," "likely," "opportunity" and similar expressions or variations of such words are intended to identify forward-looking statements, but are not the exclusive means of identifying forward-looking statements. Additionally, statements concerning future matters such as our expectations of business and market conditions, development and commercialization of new products, enhancements of existing products or technologies, and other statements regarding matters that are not historical are forward-looking statements. Such statements are based on currently available operating, financial and competitive information and are subject to various risks, uncertainties and assumptions that could cause actual results to differ materially from those anticipated or implied in our forward-looking statements due to a number of factors including, but not limited to, those set forth above under the section entitled "Risk Factors" in this prospectus and any accompanying prospectus supplement. Given these risks, uncertainties and other factors, many of which are beyond our control, you should not place undue reliance on these forward-looking statements.

Except as required by law, we assume no obligation to update these forward-looking statements publicly, or to revise any forward-looking statements to reflect events or developments occurring after the date of this prospectus, even if new information becomes available in the future.

USE OF PROCEEDS

We will not receive any of the proceeds from the sale or other disposition of shares of our common stock by the selling stockholders pursuant to this prospectus.

DESCRIPTION OF CAPITAL STOCK

The following description of our capital stock, together with any additional information we include in any applicable prospectus supplements or any free writing prospectuses that we may authorize to be delivered to you, summarizes the material terms and provisions of our capital stock that we may offer under this prospectus. While the terms we have summarized below will apply generally to any future capital stock that we may offer, we will describe the particular terms of any class or series of these securities in more detail in the applicable prospectus supplement or free writing prospectus. For the complete terms of our capital stock, please refer to our certificate of incorporation and our bylaws that are incorporated by reference into the registration statement of which this prospectus is a part or may be incorporated by reference in this prospectus or any prospectus supplement. The terms of these securities may also be affected by the Delaware General Corporation Law, or the DGCL. The summary below and that contained in any prospectus supplement or free writing prospectus are qualified in their entirety by reference to our certificate of incorporation and our bylaws.

Common Stock

We are authorized to issue 200,000,000 shares of common stock, of which 49,534,414 shares were issued as of September 30, 2019. The holders of common stock possess exclusive voting rights in us, except to the extent our board of directors specifies voting power with respect to any other class of securities issued in the future. Each holder of our common stock is entitled to one vote for each share held of record on each matter submitted to a vote of stockholders, including the election of directors. Stockholders do not have any right to cumulate votes in the election of directors.

Subject to preferences that may be granted to the holders of preferred stock, each holder of our common stock is entitled to share ratably in distributions to stockholders and to receive ratably such dividends as may be declared by our board of directors out of funds legally available therefor. In the event of our liquidation, dissolution or winding up, the holders of our common stock will be entitled to receive, after payment of all of our debts and liabilities and of all sums to which holders of any preferred stock may be entitled, the distribution of any of our remaining assets. Holders of our common stock have no conversion, exchange, sinking fund, redemption or appraisal rights (other than such as may be determined by our board of directors in its sole discretion) and have no preemptive rights to subscribe for any of our securities.

All of the outstanding shares of our common stock are, and the shares of common stock issued upon the conversion of any securities convertible into our common stock will be, fully paid and non-assessable. The shares of common stock offered by this prospectus or upon the conversion of any preferred stock or debt securities or exercise of any warrants offered pursuant to this prospectus, when issued and paid for, will also be, fully paid and non-assessable.

Our common stock is listed on the Nasdaq Global Select Market under the symbol "SIEN."

Preferred Stock

We are authorized to issue 10,000,000 shares of preferred stock, none of which were issued and outstanding as of September 30, 2019. Our board is authorized to classify or reclassify any unissued portion of our authorized shares of preferred stock to provide for the issuance of shares of other classes or series, including preferred stock in one or more series. We may issue preferred stock from time to time in one or more classes or series, with the exact terms of each class or series established by our board. Without seeking stockholder approval, our board may issue preferred stock with voting and other rights that could adversely affect the voting power of the holders of our common stock. Additionally, the issuance of preferred stock may have the effect of decreasing the market price of the common stock.

[Table of Contents](#)

The rights, preferences, privileges and restrictions of the preferred stock of each series will be fixed by the certificate of designation relating to each series. A prospectus supplement relating to each series will specify the terms of the preferred stock, including, but not limited to:

- the distinctive designation and the maximum number of shares in the series;
- the terms on which dividends, if any, will be paid;
- the voting rights, if any, on the shares of the series;
- the terms and conditions, if any, on which the shares of the series shall be convertible into, or exchangeable for, shares of any other class or classes of capital stock;
- the terms on which the shares may be redeemed, if at all;
- the liquidation preference, if any; and
- any or all other preferences, rights, restrictions, including restrictions on transferability, and qualifications of shares of the series.

The issuance of preferred stock may delay, deter or prevent a change in control.

We will describe the specific terms of a particular series of preferred stock in the prospectus supplement relating to that series. The description of preferred stock above and the description of the terms of a particular series of preferred stock in the prospectus supplement are not complete. You should refer to the applicable certificate of designation for complete information. The prospectus supplement will contain a description of U.S. federal income tax consequences relating to the preferred stock.

Possible Anti-Takeover Effects of Delaware Law and our Certificate of Incorporation and Bylaws

Provisions of the DGCL and our certificate of incorporation and bylaws could make it more difficult to acquire us by means of a tender offer, a proxy contest or otherwise, or to remove incumbent officers and directors. These provisions, summarized below, are expected to discourage certain types of coercive takeover practices and takeover bids that our board of directors may consider inadequate and to encourage persons seeking to acquire control of us to first negotiate with our board of directors. We believe that the benefits of increased protection of our ability to negotiate with the proponent of an unfriendly or unsolicited proposal to acquire or restructure us outweigh the disadvantages of discouraging takeover or acquisition proposals because, among other things, negotiation of these proposals could result in an improvement of their terms.

Delaware Anti-Takeover Statute

We are subject to Section 203 of the DGCL, an anti-takeover statute. In general, Section 203 of the DGCL prohibits a publicly held Delaware corporation from engaging in a “business combination” with an “interested stockholder” for a period of three years following the time the person became an interested stockholder, unless the business combination or the acquisition of shares that resulted in a stockholder becoming an interested stockholder is approved in a prescribed manner. Generally, a “business combination” includes a merger, asset or stock sale or other transaction resulting in a financial benefit to the interested stockholder. Generally, an “interested stockholder” is a person who, together with affiliates and associates, owns (or within three years prior to the determination of interested stockholder status did own) 15% or more of a corporation’s voting stock. The existence of this provision would be expected to have an anti-takeover effect with respect to transactions not approved in advance by our board of directors, including discouraging attempts that might result in a premium over the market price for the shares of common stock held by our stockholders.

Classified Board

Our certificate of incorporation and our bylaws provide that our board of directors is divided into three classes, each comprised of three directors. The directors designated as a Class I directors have a term expiring at our

[Table of Contents](#)

annual meeting of stockholders in 2021. The directors designated as a Class II directors have a term expiring at our annual meeting of stockholders in 2019. The directors designated as Class III directors have a term expiring at our annual meeting of stockholders in 2020. Directors for each class will be elected at the annual meeting of stockholders held in the year in which the term for that class expires and thereafter will serve for a term of three years. At any meeting of stockholders for the election of directors at which a quorum is present, the election will be determined by a plurality of the votes cast by the stockholders entitled to vote at the election. Under the classified board provisions, it will take at least two elections of directors for any individual or group to gain control of our board. Accordingly, these provisions could discourage a third party from initiating a proxy contest, making a tender offer or otherwise attempting to gain control of us.

Removal of Directors

Our bylaws provide that our stockholders may only remove our directors with cause and with the affirmative vote of the holder of at least two-third of our voting stock then outstanding.

Amendment

Our certificate of incorporation and our bylaws provide that the affirmative vote of the holders of at least two-thirds of our voting stock then outstanding is required to amend any provision of either document.

Size of Board and Vacancies

Our certificate of incorporation provide that the number of directors on our board of directors is fixed exclusively by our board of directors. Newly created directorships resulting from any increase in our authorized number of directors will be filled by a majority of our board of directors then in office, provided that a majority of the entire board of directors, or a quorum, is present and any vacancies in our board of directors resulting from death, resignation, retirement, disqualification, removal from office or other cause will be filled generally by the majority vote of our remaining directors in office, even if less than a quorum is present.

Special Stockholder Meetings

Our bylaws provide that only the Chairman of our board of directors, our Chief Executive Officer or our board of directors pursuant to a resolution adopted by a majority of the entire board of directors may call special meetings of our stockholders.

Stockholder Action by Unanimous Written Consent

Our certificate of incorporation expressly eliminates the right of our stockholders to act by written consent other than by unanimous written consent. Stockholder action must take place at the annual or a special meeting of our stockholders or be effected by unanimous written consent.

Requirements for Advance Notification of Stockholder Nominations and Proposals

Our bylaws establish advance notice procedures with respect to stockholder proposals and nomination of candidates for election as directors other than nominations made by or at the direction of our board of directors or a committee of our board of directors.

No Cumulative Voting

The DGCL provides that stockholders are denied the right to cumulate votes in the election of directors unless our certificate of incorporation provides otherwise. Our certificate of incorporation does not provide for cumulative voting.

[Table of Contents](#)

Undesignated Preferred Stock

The authority that will be possessed by our board of directors to issue preferred stock could potentially be used to discourage attempts by third parties to obtain control of our company through a merger, tender offer, proxy contest or otherwise by making such attempts more difficult or more costly. Our board of directors may issue preferred stock with voting rights or conversion rights that, if exercised, could adversely affect the voting power of the holders of our common stock.

Authorized but Unissued Shares

Our authorized but unissued shares of common stock and preferred stock will be available for future issuance without stockholder approval. We may use additional shares for a variety of purposes, including future public offerings to raise additional capital, to fund acquisitions and as employee compensation. The existence of authorized but unissued shares of common stock and preferred stock could render more difficult or discourage an attempt to obtain control of us by means of a proxy contest, tender offer, merger or otherwise.

The above provisions may deter a hostile takeover or delay a change in control or management of us.

Transfer Agent and Registrar

The transfer agent and registrar for our capital stock is Computershare Trust Company, N.A.

SELLING STOCKHOLDER

This prospectus relates to the possible resale, distribution or other transfer by Vesta, from time to time of an aggregate of up to 607,442 shares of our common stock.

Acquisition of Shares by the Selling Stockholder

On November 7, 2019 (the “Closing Date”), we entered into an Asset Purchase Agreement (the “Purchase Agreement”) with Vesta, pursuant to which we purchased certain assets, assumed certain liabilities and obtained a non-exclusive, royalty-free, perpetual, irrevocable, assignable, sublicensable, and worldwide license to certain intellectual property owned by Vesta (the “Vesta Acquisition”). In partial consideration of the Vesta Acquisition, we agreed that, in the event the closing price of our common stock equals or exceeds a certain agreed upon price target (the “First Milestone Price Target”) on any date through November 7, 2023, we will issue Vesta 303,721 shares of common stock (the “First Milestone Shares”) within five business days of such date, and in the event the closing price of our common stock equals or exceeds a certain agreed upon price target (the “Second Milestone Price Target”) on any date through November 7, 2023, we will issue Vesta 303,721 shares of common stock (the “Second Milestone Shares”) within five business days of such date.

The Shares are subject to a contractual lock-up on transfers for a period continuing to and including May 7, 2021 and November 7, 2022 for the First Milestone Shares and Second Milestone Shares, respectively. In addition, the lock-up restricts Vesta from selling more than one-third of the First Milestone Shares or Second Milestone Shares in any thirty day period.

Pursuant to the Purchase Agreement, we are required to use our commercially reasonable efforts to file and maintain a resale registrations statement registering the resale of the First Milestone Shares and the Second Milestone Shares.

Selling Stockholder

The following table presents information regarding the selling stockholder and the shares that it may offer and sell or otherwise dispose of from time to time under this prospectus. This table is prepared based on information supplied to us by the selling stockholder. As used in this prospectus, the term “selling stockholder” includes Vesta Intermediate Funding, Inc., and any donees, pledgees, transferees, permitted assigns or other successors in interest selling shares received after the date of this prospectus from a selling stockholder as a gift, pledge, distribution or other transfer.

The number of shares in the column “Number of Shares Being Offered” represents all of the shares that the selling stockholder may offer and sell, distribute or otherwise transfer under this prospectus. The selling stockholder may sell, distribute or otherwise transfer some, all or none of its shares. We do not know how long the selling stockholder will hold the shares before selling, distributing or otherwise transferring them, and, except as described above, we currently have no agreements, arrangements or understandings with the selling stockholder regarding the sale of any of the shares. Because the selling stockholder may offer all, some, or none of the shares of common stock that it owns pursuant to this offering, we cannot estimate the number of shares of common stock that the selling stockholder will hold after completion of the offering. For purposes of this table, we have assumed that the selling stockholder will have sold all of the shares covered by this prospectus upon the completion of the applicable offering.

[Table of Contents](#)

The percentage of shares beneficially owned prior to the offering is based on 49,481,559 shares of our common stock that were outstanding as of November 1, 2019, including all shares registered in this offering.

Name and Address of Beneficial Owner	Shares Beneficially Owned Before Offering		Number of Shares Being Offered	Shares Beneficially Owned After Offering	
	Number	Percent		Number	Percent
Vesta Intermediate Funding, Inc. c/o The Lubrizol Corporation 29400 Lakeland Boulevard Wickliffe, Ohio 44092	607,442	— %	607,442	0	— %

PLAN OF DISTRIBUTION

The selling stockholder, including donees, pledgees, transferees, permitted assigns or other successors in interest (including transferees that receive shares of common stock from the selling stockholder under this prospectus), may use any one or more of the following methods (or in any combination) to sell, distribute or otherwise transfer the securities from time to time:

- through underwriters or dealers for resale to the public or to investors;
- directly to one or more purchasers;
- through agents;
- in “at the market” offerings, within the meaning of Rule 415(a)(4) of the Securities Act, to or through a market maker or into an existing trading market on an exchange or otherwise;
- in block trades;
- through public or privately negotiated transactions; or
- any other method permitted pursuant to applicable law.

In particular, the selling stockholder may offer and sell, distribute or otherwise transfer from time to time at a fixed price or prices, which may be changed; at market prices prevailing at the time of sale; at prices related to prevailing market prices; at varying prices determined at the time of sale; or at negotiated prices. These offers and sales or distribution may be effected from time to time in one or more transactions, including:

- on any national securities exchange or quotation service on which our common stock may be listed or quoted at the time of sale or in the over-the-counter market;
- in transactions otherwise than on a national securities exchange or quotation service or in the over-the-counter market;
- in block transactions in which the broker or dealer so engaged will attempt to sell the shares of common stock as agent but may position and resell a portion of the block as principal to facilitate the transaction, or in crosses, in which the same broker acts as an agent on both sides of the trade;
- in ordinary brokerage transactions in which the broker-dealer solicits purchasers;
- through purchases by a broker-dealer as principal and resale by the broker-dealer for its account;
- through the writing of options, convertible securities or other contracts or agreements to be satisfied by the delivery of shares of common stock;
- through short sales;
- through privately negotiated transactions;
- through an exchange distribution in accordance with the rules of the applicable exchange;
- broker-dealers may agree with any selling stockholder to sell a specified number of its shares at a stipulated price per share;
- through the lending of such securities;
- by pledge to secure debts and other obligations or on foreclosure of a pledge;
- through the distribution of such securities by any selling stockholder to its stockholders;
- through a combination of any of the above methods; or
- through any other method permitted pursuant to applicable law.

The selling stockholder may also sell shares in open market transactions under Rule 144 under the Securities Act, if available, rather than under this prospectus.

[Table of Contents](#)

The selling stockholder may also engage in short sales against the box, puts and calls and other transactions in our securities or derivatives of our securities and may sell or deliver shares in connection with these trades.

Broker-dealers engaged by the selling stockholder may arrange for other brokers-dealers to participate in sales. Broker-dealers may receive commissions or discounts from the selling stockholder (or, if any broker-dealer acts as agent for the purchaser of shares, from the purchaser) in amounts to be negotiated. The selling stockholder does not expect these commissions and discounts to exceed what is customary in the types of transactions involved. Any profits on the resale of shares of our common stock by a broker-dealer acting as principal might be deemed to be underwriting discounts or commissions under the Securities Act. Discounts, concessions, commissions and similar selling expenses, if any, attributable to the sale of shares will be borne by the selling stockholder. The selling stockholder may agree to indemnify any agent, dealer or broker-dealer that participates in transactions involving sales of the shares if liabilities are imposed on that person under the Securities Act.

The selling stockholder may from time to time pledge or grant a security interest in some or all of the shares of our common stock owned by them and, if they default in the performance of their secured obligations, the pledgees or secured parties may offer and sell the shares of our common stock from time to time under this prospectus after we have filed an amendment to the registration statement or supplement to the prospectus under Rule 424(b)(3) or other applicable provision of the Securities Act amending the list of selling stockholder to include the pledgee, transferee or other successors in interest as selling stockholder under this prospectus, as appropriate.

The selling stockholder also may transfer the shares of our common stock in other circumstances, in which case the transferees, pledgees or other successors in interest will be the selling beneficial owners for purposes of the prospectus and may sell the shares of common stock from time to time under the prospectus after we have filed an amendment to the registration statement or supplement to the prospectus under Rule 424(b)(3) or other applicable provision of the Securities Act amending the list of selling stockholders to include the pledgee, transferee or other successors in interest as selling stockholders under the prospectus, as appropriate.

The selling stockholder and any broker-dealers or agents that are involved in selling the shares of our common stock may be deemed to be “underwriters” within the meaning of the Securities Act in connection with such sales. In such event, any commissions received by such broker-dealers or agents and any profit on the resale of the shares of our common stock purchased by them may be deemed to be underwriting commissions or discounts under the Securities Act.

We have agreed to bear all of the expenses incurred in connection with the registration of these shares. The selling stockholder will pay or assume brokerage commissions and similar charges incurred for the sale of shares of our common stock. We have agreed to indemnify the selling stockholder against certain losses, claims, damages and liabilities, including liabilities under the Securities Act.

Agents, dealers and underwriters may be entitled under agreements entered into with the selling stockholder to indemnification by the selling stockholder against certain civil liabilities, including liabilities under the Securities Act, or to contribution with respect to payments which such agents, dealers or underwriters may be required to make in respect thereof. Agents, dealers and underwriters may be customers of, engage in transactions with, or perform services on the selling stockholder’s behalf.

At any time a particular offer of the shares of common stock is made, a prospectus supplement, if required, will be distributed and set forth the terms of each specific offering, including the name or names of any underwriters or agents, the purchase price of the shares of common stock and the proceeds to the selling stockholder from such sales or distribution, any delayed delivery arrangements, any underwriting discounts and other items constituting underwriters’ compensation, any initial public offering price and any discounts or concessions allowed or reallocated or paid to dealers. Any initial public offering price and any discounts or concessions allowed or reallocated or paid to dealers may be changed from time to time.

The anti-manipulation rules of Regulation M under the Exchange Act may apply to sales of our common stock and activities of the selling stockholder.

Through Underwriters

If underwriters are used in a sale or distribution, the shares of our common stock will be acquired by the underwriters for their own account and may be resold from time to time in one or more transactions, including negotiated transactions, at a fixed public offering price or at varying prices determined at the time of sale. The underwriters may sell or distribute the shares of our common stock in order to facilitate transactions in any of our other securities (described in this prospectus or otherwise), including other public or private transactions and short sales. The shares of our common stock may be offered to the public either through underwriting syndicates represented by one or more managing underwriters or directly by one or more firms acting as underwriters. The underwriter or underwriters with respect to a particular underwritten offering and, if an underwriting syndicate is used, the managing underwriter or underwriters will be set forth on the cover of such prospectus supplement. Unless otherwise set forth in the prospectus supplement, the underwriters will be obligated to purchase all the shares of our common stock offered in the particular underwritten offering, if any are purchased.

During and after an offering through underwriters, the underwriters may purchase and sell or distribute the shares of our common stock in the open market. These transactions may include over-allotment and stabilizing transactions and purchases to cover syndicate short positions created in connection with the offering. The underwriters also may impose a penalty bid, under which selling concessions allowed to syndicate members or other broker-dealers for the securities they sell or distribute for their account may be reclaimed by the syndicate if the syndicate repurchases the securities in stabilizing or covering transactions. These activities may stabilize, maintain or otherwise affect the market price of the securities then offered, which may be higher than the price that might otherwise prevail in the open market, and, if commenced, may be discontinued at any time.

Through Agents or to Dealers

The selling stockholder may sell or distribute the shares of our common stock directly or through agents the selling stockholder designates from time to time. Unless otherwise indicated in a prospectus supplement, any such agent will be acting on a best efforts basis for the period of its appointment.

If dealers are used in any of the sales or distribution of the shares of our common stock covered by this prospectus, the selling stockholder will sell those securities to dealers as principals. The dealers may then resell the securities to the public at varying prices the dealers determine at the time of resale.

Direct Sales

The selling stockholder may sell or distribute the shares of our common stock directly to institutional investors or others who may be deemed to be underwriters within the meaning of the Securities Act with respect to any sale thereof.

Delayed Delivery

If so indicated in a prospectus supplement, the selling stockholder may authorize agents, underwriters or dealers to solicit offers from certain types of institutions to purchase the shares of our common stock from the selling stockholder at the public offering price set forth in the prospectus supplement pursuant to delayed delivery contracts providing for payment and delivery on a specified date in the future. These contracts will be subject only to those conditions set forth in the prospectus supplement, and the prospectus supplement will set forth the commission payable for solicitation of such contracts.

Derivative Transactions and Hedging

The selling stockholder and the underwriters may engage in derivative transactions involving the shares of our common stock. These derivatives may consist of short sale transactions and other hedging activities. The

[Table of Contents](#)

underwriters may acquire a long or short position in the securities, hold or resell securities acquired and purchase options or futures on the securities and other derivative instruments with returns linked to or related to changes in the price of the securities. In order to facilitate these derivative transactions, the selling stockholder may enter into security lending or repurchase agreements with the underwriters. The underwriters may effect the derivative transactions through sales or distributions of the securities to the public, including short sales, or by lending the securities in order to facilitate short sale transactions by others. The underwriters may also use the securities purchased or borrowed from the selling stockholder or others (or, in the case of derivatives, securities received from the selling stockholder in settlement of those derivatives) to directly or indirectly settle sales of the securities or close out any related open borrowings of the securities.

Loans of Securities

The selling stockholder may loan or pledge the shares of our common stock to a financial institution or other third party that in turn may sell the securities using this prospectus and an applicable prospectus supplement.

LEGAL MATTERS

The validity of the securities offered by this prospectus will be passed upon for us by DLA Piper LLP (US), San Diego, California.

EXPERTS

The consolidated financial statements, and the related financial statement schedule, of Sientra, Inc. as of December 31, 2018 and 2017, and for each of the years in the three-year period ended December 31, 2018, have been incorporated by reference herein, and in the registration statement, in reliance upon the report of KPMG LLP, independent registered public accounting firm, incorporated by reference herein, and upon the authority of said firm as experts in accounting and auditing.

WHERE YOU CAN FIND ADDITIONAL INFORMATION

We are a reporting company and file annual, quarterly and current reports, proxy statements and other information with the SEC. We have filed with the SEC a registration statement on Form S-3 under the Securities Act with respect to the securities we are offering under this prospectus. This prospectus does not contain all of the information set forth in the registration statement and the exhibits to the registration statement. For further information with respect to us and the securities we are offering under this prospectus, we refer you to the registration statement and the exhibits and schedules filed as a part of the registration statement. The SEC maintains an internet site that contains reports, proxy and information statements, and other information regarding issuers that file electronically with the SEC, where our SEC filings are also available. The address of the SEC's web site is <http://www.sec.gov>. We maintain a website at <http://www.sientra.com>. Information contained in or accessible through our website does not constitute a part of this prospectus.

INCORPORATION OF CERTAIN INFORMATION BY REFERENCE

The SEC allows us to “incorporate by reference” information that we file with it into this prospectus, which means that we can disclose important information to you by referring you to those documents. The information incorporated by reference is an important part of this prospectus. Information in this prospectus supersedes information incorporated by reference that we filed with the SEC prior to the date of this prospectus, while information that we file later with the SEC will automatically update and supersede the information in this prospectus. We incorporate by reference into this registration statement and prospectus the following documents, and any future filings we will make with the SEC under Sections 13(a), 13(c), 14 or 15(d) of the Exchange Act after the date of the initial registration statement but prior to effectiveness of the registration statement and after the date of this prospectus but prior to the termination of the offering of the securities covered by this prospectus (other than current reports or portions thereof furnished under Item 2.02 or Item 7.01 of Form 8-K):

- Our Annual Report on [Form 10-K](#) for the year ended December 31, 2018, filed with the SEC on March 14, 2019, including the information specifically incorporated by reference into the Annual Report on Form 10-K from our definitive proxy statement for the 2019 Annual Meeting of Stockholders;
- Our Quarterly Reports on Form 10-Q for the quarter ended [March 31, 2019](#), filed with the SEC on May 8, 2019, for the quarter ended [June 30, 2019](#), filed with the SEC on August 9, 2019, and for the quarter ended [September 30, 2019](#), filed with the SEC on November 7, 2019;
- Our Current Reports on Form 8-K filed with the SEC on [February 7, 2019](#), [March 21, 2019](#), [June 5, 2019](#), [June 17, 2019](#), [July 2, 2019](#), [August 16, 2019](#), [October 3, 2019](#), [November 7, 2019](#), [November 7, 2019](#) and [November 15, 2019](#); and

[Table of Contents](#)

- The description of our common stock contained in our registration statement on [Form 8-A](#) filed with the SEC on October 24, 2014, and any amendment or report filed with the SEC for the purpose of updating the description.

We will provide each person, including any beneficial owner, to whom a prospectus is delivered, a copy of any or all of the information that has been incorporated by reference into this prospectus but not delivered with this prospectus upon written or oral request at no cost to the requester. Requests should be directed to: Sientra, Inc., 420 South Fairview Avenue, Suite 200, Santa Barbara, CA 93117, Telephone: (805) 562-3500.

sientra.

607,442 Shares

Common Stock

Prospectus

, 2019

PART II
INFORMATION NOT REQUIRED IN PROSPECTUS

Other Expenses of Issuance and Distribution

The following table sets forth the various expenses to be incurred in connection with the registration of the securities being registered hereby, all of which will be borne by the registrant.

Securities and Exchange Commission registration fee	\$ 647
Legal fees and expenses	25,000
Accounting fees and expenses	7,500
Printing expenses	4,000
Total	\$ 37,147

Indemnification of Officers and Directors

Section 145 of the DGCL authorizes a court to award or a corporation's board of directors to grant indemnification to directors and officers in terms sufficiently broad to permit such indemnification under certain circumstances for liabilities (including reimbursement for expenses incurred) arising under the Securities Act of 1933, as amended, or the Securities Act.

Our certificate of incorporation includes a provision that, to the fullest extent permitted by the DGCL, eliminates the personal liability of our directors for monetary damages for breach of fiduciary duty as a director. In addition, together our certificate of incorporation and our bylaws require us to indemnify, to the fullest extent permitted by law, any person made or threatened to be made a party to an action or proceeding (whether criminal, civil, administrative or investigative) by reason of the fact that such person is or was a director, officer or employee of Sientra or any predecessor of ours, or serves or served at any other enterprise as a director, officer or employee at our request or the request of any predecessor of ours, against expenses (including attorneys' fees), judgments, fines, settlements and other amounts actually and reasonably incurred in connection with any proceeding, arising by reason of the fact that such person is or was an agent of ours. Our bylaws also provide that we may, to the fullest extent provided by law, indemnify any person against expenses (including attorneys' fees), judgments, fines, settlements and other amounts actually and reasonably incurred in connection with any proceeding, arising by reason of the fact that such person is or was an agent of ours. We are required to advance expenses incurred by our directors, officers, employees and agents in defending any action or proceeding for which indemnification is required or permitted, subject to certain limited exceptions. The indemnification rights conferred by our certificate of incorporation and bylaws are not exclusive.

In addition, we have entered into indemnification agreements with each of our executive officers and directors. We also maintain an officers and directors liability insurance policy.

The foregoing may reduce the likelihood of derivative litigation against our directors and executive officers and may discourage or deter stockholders or management from suing directors or executive officers for breaches of their duty of care, even though such actions, if successful, might otherwise benefit the company and our stockholders.

The underwriting agreement that we may enter into will provide for indemnification by any underwriters of the company, our directors, our officers who sign the registration statement and our controlling persons, if any, for some liabilities, including liabilities arising under the Securities Act.

[Table of Contents](#)

Exhibits

Exhibit Number	Description
1.1*	Form of Underwriting Agreement.
4.1	Certificate of Incorporation (incorporated by reference to our Registration Statement on Form S-1 filed with the Commission on October 20, 2014).
4.2	Amended and Restated Bylaws (incorporated by reference to our Registration Statement on Form S-1 filed with the Commission on October 20, 2014).
4.3†	Asset Purchase Agreement, dated November 7, 2019, by and between Sientra, Inc. and Vesta Intermediate Funding, Inc. (incorporated by reference to our Current Report on Form 8-K filed with the Commission on November 7, 2019).
5.1	Opinion of DLA Piper LLP (US)
23.1	Consent of KPMG LLP, Independent Registered Public Accounting Firm
23.2	Consent of DLA Piper LLP (US) (included in Exhibit 5.1)
24.1	Power of Attorney (included immediately following the signature page to the registration statement)

* If applicable, to be filed by amendment or by a report filed under the Exchange Act and incorporated herein by reference.

† Portions of this exhibit have been redacted in compliance with Regulation S-K Item 601(b)(10).

Undertakings

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 Securities and Exchange Commission (the “Commission”), pursuant to Rule 424(b) if, in the aggregate, the changes in volume and price represent no more than 20 percent change in the maximum aggregate offering price set forth in the “Calculation of Registration Fee” table in the effective registration statement; and (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), (a)(1)(ii) and (a)(1)(iii) do not apply if the information required to be included in a post-effective amendment by those paragraphs is contained in reports filed with or furnished to the Commission by the registrant pursuant to Section 13 or Section 15(d) of the Securities Exchange Act of 1934 (the “Exchange Act”), that are incorporated by reference in the registration statement, or is contained in a form of prospectus filed pursuant to Rule 424(b) that is part of the registration statement.

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.

[Table of Contents](#)

- 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.
- 4) That, for the purpose of determining liability under the Securities Act to any purchaser:
- i. Each prospectus filed by the registrant pursuant to Rule 424(b)(3) shall be deemed to be part of the registration statement as of the date the filed prospectus was deemed part of and included in the registration statement; and
 - ii. Each prospectus required to be filed pursuant to Rule 424(b)(2), (b)(5) or (b)(7) as part of a registration statement in reliance on Rule 430B relating to an offering made pursuant to Rule 415(a)(1)(i), (vii) or (x) for the purpose of providing the information required by Section 10(a) of the Securities Act shall be deemed to be part of and included in the registration statement as of the earlier of the date such form of prospectus is first used after effectiveness or the date of the first contract of sale of securities in the offering described in the prospectus. As provided in Rule 430B, for liability purposes of the issuer and any person that is at that date an underwriter, such date shall be deemed to be a new effective date of the registration statement relating to the securities in the registration statement to which that prospectus relates, and the offering of such securities at that time shall be deemed to be the initial bona fide offering thereof. *Provided, however*, that no statement made in a registration statement or prospectus that is part of the registration statement or made in a document incorporated or deemed incorporated by reference into the registration statement or prospectus that is part of the registration statement will, as to a purchaser with a time of contract of sale prior to such effective date, supersede or modify any statement that was made in the registration statement or prospectus that was part of the registration statement or made in any such document immediately prior to such effective date.
- 5) That, for the purpose of determining liability of the registrant under the Securities Act to any purchaser in the initial distribution of the securities, in a primary offering of securities of the undersigned registrant pursuant to this registration statement, regardless of the underwriting method used to sell the securities to the purchaser, if the securities are offered or sold to such purchaser by means of any of the following communications, the undersigned registrant will be a seller to the purchaser and will be considered to offer or sell such securities to such purchaser:
- i. Any preliminary prospectus or prospectus of the undersigned registrant relating to the offering required to be filed pursuant to Rule 424;
 - ii. Any free writing prospectus relating to the offering prepared by or on behalf of the undersigned registrant or used or referred to by the undersigned registrant;
 - iii. The portion of any other free writing prospectus relating to the offering containing material information about the undersigned registrant or its securities provided by or on behalf of an undersigned registrant; and
 - iv. Any other communication that is an offer in the offering made by the undersigned registrant to the purchaser.
- 6) 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.
- 7) To file an application for the purpose of determining the eligibility of the trustee to act under subsection (a) of Section 310 of the Trust Indenture Act in accordance with the rules and regulations prescribed by the Commission under Section 305(b)(2) of the Trust Indenture Act.

[Table of Contents](#)

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 Securities and Exchange Commission such indemnification is against public policy as expressed in the 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 Act and will be governed by the final adjudication of such issue.

SIGNATURES

Pursuant to the requirements of the Securities Act of 1933, the registrant certifies that it has reasonable grounds to believe that it meets all of the requirements for filing on Form S-3 and has duly caused this registration statement to be signed on its behalf by the undersigned thereunto duly authorized in the City of Santa Barbara, State of California, on December 23, 2019.

SIENTRA, INC.

By: /s/ Jeffrey Nugent

Jeffrey Nugent
Chairman and Chief Executive Officer

POWER OF ATTORNEY

KNOW ALL PERSONS BY THESE PRESENTS, that each person whose individual signature appears below hereby authorizes and appoints Jeffrey Nugent, Paul Little and Oliver Bennett, and each of them, with full power of substitution and resubstitution and full power to act without the other, as his true and lawful attorney-in-fact and agent to act in his name, place and stead and to execute in the name and on behalf of each person, individually and in each capacity stated below, and to file any and all amendments (including post-effective amendments) to this Registration Statement, and to file the same, with all 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, ratifying and confirming all that said attorneys-in-fact and agents or any of them or their or his substitute or substitutes may lawfully do or cause to be done by virtue thereof.

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.

<u>Name</u>	<u>Title</u>	<u>Date</u>
<u>/s/ Jeffrey Nugent</u> Jeffrey Nugent	Chairman and Chief Executive Officer (Principal Executive Officer)	December 23, 2019
<u>/s/ Paul Little</u> Paul Little	Chief Financial Officer and Treasurer (Principal Financial and Accounting Officer)	December 23, 2019
<u>/s/ Nicholas Simon</u> Nicholas Simon	Lead Independent Director	December 23, 2019
<u>/s/ Mary M. Fisher</u> Mary M. Fisher	Director	December 23, 2019
<u>/s/ Kevin O'Boyle</u> Kevin O'Boyle	Director	December 23, 2019
<u>/s/ Philippe A. Schaison</u> Philippe A. Schaison	Director	December 23, 2019
<u>/s/ Keith Sullivan</u> Keith Sullivan	Director	December 23, 2019

DLA Piper LLP (US)
4365 Executive Drive, Suite 1100
San Diego, California 92121-2133
www.dlapiper.com

T858.677.1400
F858.677.1401

December 23, 2019

Sientra, Inc.
420 South Fairview Avenue, Suite 200
Santa Barbara, California 93117

Ladies and Gentlemen:

We have acted as counsel to Sientra, Inc., a Delaware corporation (the “*Company*”), in connection with its filing on the date hereof with the Securities and Exchange Commission (the “*Commission*”) of a registration statement on Form S-3 (as amended, the “*Registration Statement*”), including a base prospectus (the “*Base Prospectus*”), which may be supplemented by one or more prospectus supplements (each such prospectus supplement, together with the Base Prospectus, a “*Prospectus*”), under the Securities Act of 1933, as amended (the “*Act*”), relating to the registration of 607,442 shares of the Company’s common stock, \$0.01 par value per share (“*Common Stock*”), to be sold from time to time by the selling stockholder named therein (the “*Shares*”).

This opinion is being furnished in connection with the requirements of Item 601(b)(5) of Regulation S-K under the Act, and no opinion is expressed herein as to any matter pertaining to the contents of the Registration Statement or related applicable Prospectus, other than as expressly stated herein with respect to the issue of the Shares.

As such counsel, we have examined such matters of fact and questions of law as we have considered appropriate for purposes of this letter. With your consent, we have relied upon certificates and other assurances of officers of the Company and others as to factual matters without having independently verified such factual matters. We are opining herein as to the General Corporation Law of the State of Delaware, and we express no opinion with respect to the applicability thereto, or the effect thereon, of the laws of any other jurisdiction or, in the case of Delaware, any other laws, or as to any matters of municipal law or the laws of any local agencies within any state.

Subject to the foregoing and the other matters set forth herein, it is our opinion that, as of the date hereof, the Shares have been duly authorized and are validly issued, fully paid and nonassessable.

This opinion is for your benefit in connection with the Registration Statement and may be relied upon by you and by persons entitled to rely upon it pursuant to the applicable provisions of the Act. We consent to your filing this opinion as an exhibit to the Registration Statement and to the reference to our firm contained in the Prospectus under the heading “Legal Matters.” In giving such consent, we do not thereby admit that we are in the category of persons whose consent is required under Section 7 of the Act or the rules and regulations of the Commission thereunder

Very truly yours,

/s/ DLA Piper LLP (US)

DLA Piper LLP (US)

Consent of Independent Registered Public Accounting Firm

The Board of Directors
Sientra, Inc:

We consent to the use of our report dated March 14, 2019, with respect to the consolidated balance sheets of Sientra, Inc. as of December 31, 2018 and 2017, and the related consolidated statements of operations, stockholders' equity, and cash flows for each of the years in the three-year period ended December 31, 2018, and the related notes and financial statement schedule (collectively the "consolidated financial statements"), incorporated herein by reference and to the reference to our firm under the heading "Experts" in the prospectus.

/s/ KPMG LLP

Los Angeles, California
December 23, 2019