

SECURITIES AND EXCHANGE COMMISSION
Washington, D.C. 20549

AMENDMENT NO. 3
TO

FORM S-1

REGISTRATION STATEMENT
Under
The Securities Act of 1933

Artelo Biosciences, Inc.

(Exact name of Registrant as specified in its charter)

Nevada

(State or other jurisdiction of
incorporation or organization)

7389

(Primary Standard Industrial
Classification Code Number)

33-1220924

(I.R.S. Employer
Identification Number)

**888 Prospect Street, Suite 210
La Jolla, CA 92037
(760) 943-1689**

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

**Gregory D. Gorgas
Chief Executive Officer and President
888 Prospect Street, Suite 210
La Jolla, CA 92037
Telephone: (760) 943-1689**

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

Copies to:

**Martin J. Waters
Wilson Sonsini Goodrich & Rosati, P.C.
12235 El Camino Real
San Diego, CA 92130
Telephone: (858) 350-2300
Facsimile: (858) 350-2399**

**Megan N. Gates
Mintz, Levin, Cohn, Ferris,
Glovsky and Popeo, P.C.
One Financial Center
Boston, MA 02111
Telephone: (617) 348-4443
Facsimile: (617) 542-2241**

Approximate date of commencement of proposed sale to the public: As soon as practicable after the effective date of this Registration Statement.

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, 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 post-effective amendment filed pursuant to Rule 462(d) 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.

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 the definitions of "large accelerated filer", "accelerated filer", "smaller reporting company" and "emerging growth company" in Rule 12b-2 of the Exchange Act. (Check one):

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 to Section 7(a)(2)(B) of the Securities Act.

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.

Explanatory Note

Artelo Biosciences, Inc. is filing this Amendment No. 3 (the "Amendment") to its Registration Statement on Form S-1 (File No. 333-249083) as an exhibits-only filing to revise Exhibit 5.1 and add Exhibit 5.2. Accordingly, this Amendment consists only of the facing page of the Registration Statement, this explanatory note, Part II of the Registration Statement, the signature pages to the Registration Statement and the filed exhibits. The prospectus has not changed and has therefore been omitted.

PART II

INFORMATION NOT REQUIRED IN PROSPECTUS

Item 13. Other Expenses of Issuance and Distribution

The following table sets forth expenses in connection with the issuance and distribution of the securities being registered. All amounts shown are estimated, except the SEC registration fee.

SEC registration fees	\$ 1,590.13
FINRA filing fee	\$ 2,686.25
Legal fees and expenses	\$ 350,000.00
Accounting fees and expenses	\$ 7,000.00
Printing and engraving expenses	\$ 15,000.00
Transfer agent and registrar fees and expenses	\$ 3,000.00
Miscellaneous	\$ 20,723.62
Total	\$ 400,000.00

Item 14. Indemnification of Directors and Officers

The Company's Articles of Incorporation and Bylaws provide that, to the fullest extent permitted by the laws of the State of Nevada, any officer or director of the Company, who was or is a party or is threatened to be made a party to any threatened, pending or completed action, suit or proceeding, whether civil, criminal, administrative or investigative, by reason of the fact that he/she is or was or has agreed to serve at the request of the Corporation as a director, officer, employee or agent of the Corporation, or while serving as a director or officer of the Corporation, is or was serving or has agreed to serve at the request of the Corporation as a director, officer, employee or agent (which, for purposes hereof, shall include a trustee, partner or manager or similar capacity) of another corporation, partnership, joint venture, trust, employee benefit plan or other enterprise, or by reason of any action alleged to have been taken or omitted in such capacity. For the avoidance of doubt, the foregoing indemnification obligation includes, without limitation, claims for monetary damages against Indemnitee to the fullest extent permitted under Section 78.7502 of the Nevada Revised Statutes as in existence on the date hereof.

The indemnification provided shall be from and against expenses (including attorneys' fees), judgments, fines and amounts paid in settlement actually and reasonably incurred by Indemnitee or on Indemnitee's behalf in connection with such action, suit or proceeding and any appeal therefrom, but shall only be provided if Indemnitee acted in good faith and in a manner Indemnitee reasonably believed to be in or not opposed to the best interests of the Corporation, and, with respect to any criminal action, suit or proceeding, had no reasonable cause to believe Indemnitee's conduct was unlawful.

In the case of any threatened, pending or completed action or suit by or in the right of the Corporation to procure a judgment in its favor by reason of the fact that he/she is or was a director, officer, employee or agent of the Corporation, or while serving as a director or officer of the Corporation, is or was serving or has agreed to serve at the request of the Corporation as a director, officer, employee or agent of another corporation, partnership, joint venture, trust, employee benefit plan or other enterprise, no indemnification shall be made in respect of any claim, issue or matter as to which Indemnitee shall have been adjudged to be liable to the Corporation unless, and only to the extent that, the Nevada courts or the court in which such action or suit was brought shall determine upon application that, despite the adjudication of liability but in view of all the circumstances of the case, Indemnitee is fairly and reasonably entitled to indemnity for such expenses which the Nevada courts or such other court shall deem proper.

The termination of any action, suit or proceeding by judgment, order, settlement, conviction, or upon a plea of nolo contendere or its equivalent, shall not, of itself, create a presumption that he/she did not act in good faith and in a manner which Indemnitee reasonably believed to be in or not opposed to the best interests of the Corporation, and, with respect to any criminal action or proceeding, had reasonable cause to believe that Indemnitee's conduct was unlawful.

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

Item 15. Recent Sales of Unregistered Securities

The following list sets forth information as to all securities we have sold since our date of inception and up to the date of this document.

During the fiscal year ended August 31, 2015, we issued 205,000 shares of Common Stock to various un-affiliated investors for \$16,400 cash.

On February 26, 2014, we issued 750,000 shares of Common Stock to an officer and director at \$0.04 per share.

On July 31, 2017, we entered into Series A Subscription Agreements for the sale of Common Stock in our Series A Offering with eighteen (18) individuals, all of whom are accredited investors (as that term is defined in Regulation D as promulgated by the U.S. Securities and Exchange Commission pursuant to the Securities Act of 1933, as amended) for the purchase and sale of 244,033 units of the Company's equity securities (the "Series A Units") at a price of \$3.20 per Series A Unit, pursuant to a private placement offering conducted by the Company for aggregate proceeds of \$780,921. Each Series A Unit consists of: (i) one (1) share of common stock; and (ii) one (1) Series A Stock Purchase Warrant to purchase one (1) share of common stock at a price of \$8.00 per share for a period of five (5) years from the issue date.

On January 2, 2018, we issued 15,000 shares of Common Stock to NEOMED Institute.

On March 23, 2018, we entered into Series B Subscription Agreements with twenty-eight (28) individuals for the sale of Common Stock in our Series B Offering, all of whom are accredited investors (as that term is defined in Regulation D as promulgated by the U.S. Securities and Exchange Commission pursuant to the Securities Act of 1933, as amended) for the purchase and sale of 163,606 units of the Company's equity securities (the "Series B Units") at a price of \$5.20 per Series B Unit, pursuant to a private placement offering conducted by the Company for aggregate proceeds of \$850,785. Each Series B Unit consists of: (i) one (1) share of common stock; and (ii) one (1) Series B Stock Purchase Warrant to purchase one (1) share of common stock at a price of \$12.00 per share for a period of five (5) years from the issue date.

On September 12, 2018, we entered into Series C Subscription Agreements with twenty-four (24) individuals for the sale of Common Stock in our Series C Offering, all of whom are accredited investors (as that term is defined in Regulation D as promulgated by the U.S. Securities and Exchange Commission pursuant to the Securities Act of 1933, as amended) for the purchase and sale of 87,629 units of the Company's equity securities (the "Series C Units") at a price of \$6.00 per Series C Unit, pursuant to a private placement offering conducted by the Company for aggregate proceeds of \$525,828. Each Series C Unit consists of: (i) one (1) share of common stock; and (ii) one (1) Series C Stock Purchase Warrant to purchase one (1) share of common stock at a price of \$14.00 per share for a period of five (5) years from the issue date.

On January 30, 2019, we entered into Series D Subscription Agreements with forty (40) individuals for the sale of Common Stock in our Series D Offering, all of whom are accredited investors (as that term is defined in Regulation D as promulgated by the U.S. Securities and Exchange Commission pursuant to the Securities Act of 1933, as amended) for the purchase and sale of 209,635 units of the Company's equity securities (the "Series D Units") at a price of \$6.00 per Series D Unit, pursuant to a private placement offering conducted by the Company for aggregate proceeds of \$1,257,905. Each Series D Unit consists of: (i) one (1) share of common stock; and (ii) one (1) Series D Stock Purchase Warrant to purchase one (1) share of common stock at a price of \$14.00 per share for a period of five (5) years from the issue date. In January 2020, an additional 7,373 Series D shares were issued to existing Series D unitholders in accordance with the late filing terms stated above.

On March 15, 2019, the Board approved the issuance of 25,000 shares of our Common Stock to Blackrock Ventures, Ltd., an entity owned by Peter O'Brien in exchange for prior services to us.

On April 24, 2019, we issued 61,297 shares of our Common Stock to NEOMED in connection with our exercise of the NEOMED Option pursuant to the First Amendment to Material and Data Transfer, Option and License Agreement by and between us and NEOMED dated as of January 4, 2019.

On April 25, 2019, we issued 11,363 shares of our Common Stock as consideration for the waiver by NEOMED of the cash payment of \$100,000 that was due to NEOMED on October 1, 2018 pursuant to the First Amendment to Material and Data Transfer, Option and License Agreement by and between us and NEOMED dated as of January 4, 2019.

On April 25, 2019 and May 24, 2019, we entered into Series E Subscription Agreements with a total of fifty-nine (59) individuals for the sale of Common Stock in our Series E Offering, all of whom are accredited investors (as that term is defined in Regulation D as promulgated by the U.S. Securities and Exchange Commission pursuant to the Securities Act of 1933, as amended) for the purchase and sale of 54,940 units of the Company's equity securities (the "Series E Units") at a price of \$7.60 per Series E Unit, pursuant to a private placement offering conducted by the Company for aggregate proceeds of \$417,732. Each Series E Unit consists of: (i) one (1) share of common stock; and (ii) one (1) Series E Stock Purchase Warrant to purchase one-half (1/2) share of common stock at a price of \$16.00 per share for a period of three (3) years from the issue date. On June 21, 2019 the Company issued 12,950 shares and 6,490 warrants for price protection provision related to the Series E units.

On May 4, 2020, the Company issued 45,834 shares of common stock to two directors, for proceeds of \$55,000.

Each of the foregoing issuances was made in a transaction not involving a public offering pursuant to an exemption from the registration requirements of the Securities Act in reliance upon Section 4(a)(2) of the Securities Act, or Regulation D or Regulation S promulgated under the Securities Act.

Item 16. Exhibits and Financial Statement Schedules

(a) The following exhibits are included herein or incorporated by reference.

Exhibit Number	Description	Form	File No.	Filing Date	Filed Herewith
1.1	Form of Underwriting Agreement	S-1/A	333-249083	10/6/2020	
3.1	Articles of Incorporation and Amendments	S-1	333-199213	10/8/2014	
3.2	Certificate of Amendment filed with the Nevada Secretary of State on February 2, 2017 with an effective date of February 10, 2017.	8-K	333-199213	2/9/2017	
3.3	Certificate of Change.	8-K	333-199213	4/17/2017	
3.4	Bylaws	S-1	333-199213	10/8/2014	
4.1	Form of Underwriter's Warrant	S-1/A	333-249083	10/6/2020	
4.2	Form of Common Stock Warrant	S-1/A	333-249083	10/6/2020	
4.3	Form of Private Placement Warrant	8-K/A	333-199213	10/3/2017	
4.4	Form of Lock-Up and Voting Agreement	S-1/A	333-249083	10/6/2020	
5.1	Legal Opinion of Fennemore Craig, P.C.				*
5.2	Legal Opinion of Wilson Sonsini Goodrich & Rosati, P.C.				*
10.1#	Amended and Restated Employment Agreement by and between the Company and Gregory D. Gorgas dated August 30, 2019.	10-K	001-38951	11/25/2019	
10.2	Securities Purchase Agreement by and between the Company and Gregory D. Gorgas dated April 3, 2017.	8-K	333-199213	4/7/2017	
10.3#	Form of Indemnification Agreement	8-K	333-199213	5/8/2017	
10.4	Stock Purchase Agreement dated May 4, 2017	8-K	333-199213	5/8/2017	
10.5	Form of Private Placement Subscription Agreement	8-K	333-199213	8/4/2017	
10.6	Form of Registration Rights Agreement	8-K	333-199213	8/4/2017	
10.7	Stock Purchase Agreement dated as of August 1, 2017	8-K	333-199213	8/4/2017	
10.8	Material and Data Transfer, Option and License Agreement dated as of December 20, 2017 by and between the Company and NEOMED Institute+	10-Q	33-199213	1/16/2018	
10.9+	First Amendment to Material and Data Transfer, Option and License Agreement by and between the Company and NEOMED Institute, dated as of January 4, 2019	10-Q	333-199213	4/15/2019	
10.10#	2018 Equity Incentive Plan	S-1	333-227571	9/27/2018	
10.11#	Form of Stock Option Agreement—2018 Equity Incentive Plan	S-1	333-227571	9/27/2018	
10.12+	License Agreement with Stony Brook University, by and between the Company and Stony Brook University, dated January 18, 2018	S-1/A	333-222756	4/17/2018	
23.1	Consent of Independent Registered Public Accounting Firm	S-1/A	333-249083	10/6/2020	*
23.2	Consent of Fennemore Craig, P.C. (included in exhibit 5.1)				*
23.3	Consent of Wilson Sonsini Goodrich & Rosati, P.C. (included in exhibit 5.2)				*
24.1	Power of attorney	S-1	333-249083	9/28/2020	

Management contracts or compensatory plans, contracts or arrangements.

+ Certain portions of this exhibit have been omitted.

(b) Financial Statement Schedules.

The financial statement schedules have been omitted because they are not applicable, not required, or the information is included in the consolidated financial statements or notes thereto.

Item 17. 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 of 1933.

(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 Commission pursuant to Rule 424(b) if, in the aggregate, the changes in volume and price represent no more than a 20 percent 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;

(2) That, for the purpose of determining any liability under the Securities Act of 1933, 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.

(4) that:

(i) For purposes of determining any liability under the Securities Act of 1933, the information omitted from the form of prospectus filed as part of this registration statement in reliance upon Rule 430A and contained in a form of prospectus filed by the registrant pursuant to Rule 424(b)(1) or (4) or 497(h) under the Securities Act shall be deemed to be part of this registration statement as of the time it was declared effective.

(ii) For the purpose of determining any liability under the Securities Act of 1933, each post-effective amendment that contains a form of prospectus 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.

Insofar as indemnification for liabilities arising under the Securities Act of 1933 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 Securities Act of 1933 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 of 1933 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-1 and has duly caused this registration statement to be signed on its behalf by the undersigned, thereunto duly authorized, in the City of San Diego, State of California, on October 8, 2020.

ARTELO BIOSCIENCES, INC.

By: /s/ Gregory D. Gorgas
Name: Gregory D. Gorgas
Title: President & Chief Executive Officer

Pursuant to the requirements of the Securities Act of 1933, 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/ Gregory D. Gorgas</u> Gregory D. Gorgas	President, Chief Executive Officer and Director (Principal Executive Officer, Principal Financial Officer and Principal Accounting Officer)	October 8, 2020
* <u>Connie Matsui</u>	Director, Chair of the Board	October 8, 2020
* <u>Steven Kelly</u>	Director	October 8, 2020
* <u>Douglas Blayney</u>	Director	October 8, 2020
* <u>R. Martin Emanuele</u>	Director	October 8, 2020
* <u>John W. Beck</u>	Director	October 8, 2020

* Pursuant to power of attorney

By: /s/ Gregory D. Gorgas
Gregory D. Gorgas
Attorney-in-fact

FENNEMORE CRAIG, P.C.

300 E. Second Street
Suite 1510
Reno, Nevada 89501
(775) 788-2200

Law Offices

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Tucson

October 8, 2020

Artelo Biosciences, Inc.
888 Prospect Street, Suite 210
La Jolla, CA 92037

Re: Registration on Form S-1 for Artelo Biosciences, Inc.

Ladies and Gentlemen:

We are acting as special Nevada counsel for Artelo Biosciences, Inc., a Nevada corporation (the "Company"), in connection with the registration under a Registration Statement on Form S-1 (the "Registration Statement"), as amended, by the Company under the Securities Act of 1933, as amended (the "Act"). The Registration Statement relates to the proposed issuance and sale (collectively, the "Offering") of up to (i) \$6,325,000.00 of units of Company securities ("Units") consisting of shares (the "Offered Shares") of the Company's common stock, par value \$.001 per share (the "Common Stock") and warrants to purchase shares (the "Warrant Shares") of the Company's Common Stock ("Warrants"); (ii) up to \$7,906,250.00 of Warrant Shares upon exercise of the Warrants; (iii) warrants to purchase up to \$343,750.00 of the Company's Common Stock issued to the representative of the several underwriters (the "Representative's Warrants"); and (iv) shares of the Company's Common Stock to be issued upon exercise of the Representative's Warrants (the "Representative's Shares").

We have examined originals or copies of each of the documents listed below:

1. The Articles of Incorporation of the Company, as amended, as certified by an officer of the Company as of the date hereof;
 2. The Bylaws of the Company, as certified by an officer of the Company as of the date hereof;
 3. The forms of the Warrants;
 4. Resolutions of the Board of Directors of the Company, dated as of October 5, 2020 (the "Resolutions"), relating to the registration and issuance of the Offered Shares, the Warrants and the Warrant Shares, and appointing, authorizing and empowering a pricing committee of the Board of Directors of the Company (the "Pricing Committee"), as certified by an officer of the Company as of the date hereof;
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FENNEMORE CRAIG, P.C.

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Re: Registration of Common Stock
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5. A draft of the Underwriting Agreement in connection with the Offering by and between the Company and Ladenburg Thalmann & Co. Inc.(the “Agreement”); and

6. The Registration Statement.

We have examined originals or copies of such other corporate records, certificates of corporate officers and public officials and other agreements and documents as we have deemed necessary or advisable for purposes of this opinion letter. We have relied upon the certificates of all public officials and corporate officers with respect to the accuracy of all factual matters contained therein.

Without limiting the generality of the foregoing, in our examination, we have, with your permission, assumed without independent verification, that (i) all documents submitted to us as originals are authentic, the signatures on all documents that we examined are genuine, and all documents submitted to us as certified, conformed, photostatic, electronic or facsimile copies conform to the original document; and (ii) all corporate records made available to us by the Company and all public records we have reviewed are accurate and complete. We note that the Board of Directors of the Company has reserved, effective upon (x) the filing in the office of the Secretary of State of the State of Nevada of an amendment to the Company’s articles of incorporation which increases the authorized shares of the Company’s Common Stock or (y) Shareholder approval and the Board of Directors execution of a reverse stock split of the Company’s outstanding Common Stock, in either case such that shares of the Company’s Common Stock available for issuance are equal to or greater than the number of shares of Common Stock to be issued pursuant to the Agreement upon exercise of the Warrants, and we assume that the Company will continue to reserve such number of shares of Common Stock until exercise of all of the Warrants.

1. Issuance of the Offered Shares has been duly authorized by the Company and, when issued and paid for in accordance with the terms of the Registration Statement, the Agreement, and the duly adopted resolutions of the Pricing Committee setting the price per share of the Offered Shares, the Offered Shares will be validly issued, fully paid and nonassessable.

2. Issuance of the Warrants and the Representative’s Warrants has been duly authorized by the Company and, when issued and paid for in accordance with the terms of the Registration Statement, the Agreement, and the duly adopted resolutions of the Pricing Committee setting the price per Warrant and the exercise price thereof and of the Representative’s Warrants, the Warrants and the Representative’s Warrants will be validly issued.

FENNEMORE CRAIG, P.C.

Artelo Biosciences, Inc.
Re: Registration of Common Stock
October 8, 2020
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3. Issuance of the Warrant Shares and the Representative's Shares has been duly authorized by the Company and, when issued and paid for in accordance with the terms of the Warrants or the Representative's Warrants, as applicable, the Warrant Shares and the Representative's Shares, respectively, will be validly issued, fully paid and nonassessable.

We express no opinion as to the laws of any jurisdiction other than the laws of the State of Nevada. The opinions expressed above concern only the effect of the laws (excluding the principles of conflict of laws) of the State of Nevada currently in effect. We assume no obligation to supplement this opinion if any applicable laws change after the date of this opinion, or if we become aware of any facts that might change the opinions expressed above after the date of this opinion.

This opinion is issued in the State of Nevada. By issuing this opinion, Fennemore Craig, P.C. (i) shall not be deemed to be transacting business in any other state or jurisdiction other than the State of Nevada and (ii) does not consent to the jurisdiction of any state other than the State of Nevada. Any claim or cause of action arising out of the opinions expressed herein must be brought in the State of Nevada. Your acceptance of this opinion shall constitute your agreement to the foregoing.

We consent to your filing of this opinion as an exhibit to the Registration Statement and further consent to the use of our name wherever appearing in the Registration Statement. We further consent to the incorporation by reference of this opinion and consent in any registration statement filed pursuant to Rule 462(b) under the Act with respect to the Common Stock, the Warrants and the Warrant Shares. In giving these consents, we do not thereby admit that we are within the category of persons whose consent is required under Section 7 of the Act, the rules and regulations of the Securities and Exchange Commission promulgated thereunder, or Item 509 of Regulation S-K. The opinions expressed in this letter are rendered as of the date hereof, and we express no opinion as to circumstances or events that may occur subsequent to such date. Our opinion is expressly limited to the matters set forth above and we render no opinion, whether by implication or otherwise, as to any other matters relating to the Company or the Common Stock, the Warrants or the Warrant Shares.

Very truly yours,

/s/ Fennemore Craig, P.C.
Fennemore Craig, P.C.



Wilson Sonsini Goodrich & Rosati
Professional Corporation

12235 El Camino Real
San Diego, California 92130-3002

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f: 858.350.2399

October 8, 2020

Artelo Biosciences, Inc.
888 Prospect Street, Suite 210
La Jolla, California 92037

Re: Registration Statement on Form S-1 (Reg. No. 333-249083)

Dear Ladies and Gentlemen:

We have acted as counsel to Artelo Biosciences, Inc., a Nevada corporation (the “*Company*”), in connection with the filing of a registration statement on Form S-1 (Reg. No. 333-249083) (as amended, the “*Registration Statement*”), under the Securities Act of 1933, as amended (the “*Securities Act*”). The Registration Statement relates to the proposed issuance and sale by the Company of up to \$6,325,000 of units, each consisting of one share of its common stock, par value \$0.001 per share (“*Shares*”) and one warrant to purchase one Share (the “*Common Stock Warrants*”) (collectively, the “*Units*”); (ii) up to \$343,750 in warrants to purchase Shares (the “*Underwriter Warrants*”) and, together with the Common Stock Warrants, the “*Warrants*”), and (iii) the Shares issuable upon exercise of the Warrants (the “*Warrant Shares*”). The Units, the Warrants, the Warrant Shares, and the Shares underlying the Units are collectively referred to herein as the “*Securities*.”

In rendering the opinions set forth below, we have assumed that (i) all information contained in all documents reviewed by us is true and correct; (ii) all signatures on all documents examined by us are genuine; (iii) all documents submitted to us as originals are authentic and all documents submitted to us as copies conform to the originals of those documents; (iv) each natural person signing any document reviewed by us had the legal capacity to do so; and (v) the certificates representing the Securities will be duly executed and delivered.

We have examined the Registration Statement, including the exhibits thereto, and such other documents, corporate records, and instruments and have examined such laws and regulations as we have deemed necessary for purposes of rendering the opinions set forth herein.

We express no opinion herein as to the laws of any state or jurisdiction other than New York and the federal laws of the United States of America.

Our opinion below is qualified to the extent that they may be subject to or affected by (i) applicable bankruptcy, insolvency, reorganization, moratorium, usury, fraudulent conveyance or similar laws affecting the rights of creditors generally, and (ii) by general equitable principles and public policy considerations, whether such principles and considerations are considered in a proceeding at law or at equity. Furthermore, we express no opinion as to the availability of any equitable or specific remedy, or as to the successful assertion of any equitable defense, upon any breach of any agreements or obligations referred to therein, or any other matters, inasmuch as the availability of such remedies or defenses may be subject to the discretion of a court. We express no opinion as to the enforceability of any indemnification provision, or as to the enforceability of any provision that may be deemed to constitute liquidated damages.

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Based upon and subject to the foregoing, we are of the opinion that when the Warrants have been duly executed and delivered by the Company and duly delivered to the purchasers thereof against payment therefor in the circumstances contemplated by the form of the Underwriting Agreement most recently filed as an exhibit to the Registration Statement, they will be valid and legally binding obligations of the Company, enforceable against the Company in accordance with their terms.

We hereby consent to the use of this opinion as an exhibit to the Registration Statement and to the use of our name under the caption "Legal Matters" in the prospectus contained therein. In giving such consent, we do not thereby admit that we are in the category of persons whose consent is required under Sections 7 and 11 of the Securities Act or the rules and regulations of the Securities and Exchange Commission thereunder.

This opinion letter is given to you solely for use in connection with the offer and sale of the Securities while the Registration Statement is in effect and is not to be relied upon for any other purpose. Our opinion is expressly limited to the matters set forth above, and we render no opinion, whether by implication or otherwise, as to any other matters relating to the Company, the Securities or the Registration Statement.

Sincerely,

/s/ WILSON SONSINI GOODRICH & ROSATI
WILSON SONSINI GOODRICH & ROSATI
Professional Corporation

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