

UNITED STATES SECURITIES AND EXCHANGE COMMISSION WASHINGTON, D.C. 20549

DIVISION OF CORPORATION FINANCE

Mail Stop 3561

August 25, 2016

<u>Via E-mail</u> Michael W. Nall Chief Executive Officer Biocept, Inc. 5810 Nancy Ridge Dr. San Diego, CA 92121

> Re: Biocept, Inc. Registration Statement on Form S-1 Filed August 12, 2016 File No. 333-213111

Dear Mr. Nall:

We have limited our review of your registration statement to those issues we have addressed in our comment. In our comment, we may ask you to provide us with information so we may better understand your disclosure.

Please respond to this letter by amending your registration statement and providing the requested information. If you do not believe our comment applies to your facts and circumstances or do not believe an amendment is appropriate, please tell us why in your response.

After reviewing any amendment to your registration statement and the information you provide in response to this comment, we may have additional comments.

General

1. We note that you are authorized to issue up to 40,000,000 shares of common stock and as of August 8, 2016 it appears there were 5,173,941 shares available for use. Based on recent trading prices, it appears you seek to issue approximately 17,241,379 shares in this offering. Please advise us whether you have sufficient authorized and outstanding shares for this offering.

We urge all persons who are responsible for the accuracy and adequacy of the disclosure in the filing to be certain that the filing includes the information the Securities Act of 1933 and all applicable Securities Act rules require. Since the company and its management are in possession of all facts relating to a company's disclosure, they are responsible for the accuracy and adequacy of the disclosures they have made. Michael W. Nall Biocept, Inc. August 25, 2016 Page 2

Notwithstanding our comments, before we can declare the amended registration statement effective, the company should provide us with a letter, acknowledging that:

- should the Commission or the staff, acting pursuant to delegated authority, declare the filing effective, it does not foreclose the Commission from taking any action with respect to the filing;
- the action of the Commission or the staff, acting pursuant to delegated authority, in declaring the filing effective, does not relieve the company from its full responsibility for the adequacy and accuracy of the disclosure in the filing; and
- the company may not assert staff comments and the declaration of effectiveness as a defense in any proceeding initiated by the Commission or any person under the federal securities laws of the United States.

Please refer to Rules 460 and 461 regarding requests for acceleration. We will consider a written request for acceleration of the effective date of the registration statement as confirmation of the fact that those requesting acceleration are aware of their respective responsibilities under the Securities Act of 1933 and the Securities Exchange Act of 1934 as they relate to the proposed public offering of the securities specified in the above registration statement. Please allow adequate time for us to review any amendment prior to the requested effective date of the registration statement.

Please contact Jonathan Burr at (202) 551-5833 or James Lopez at (202) 551-3536 with any questions.

Sincerely,

/s/ James Lopez (for)

John Reynolds Assistant Director Office of Beverages, Apparel, and Mining

cc: Charles J. Bair Cooley LLP