

Food and Drug Administration Silver Spring, MD 20993

NDA 204442/S-007

# SUPPLEMENT APPROVAL

Titan Pharmaceuticals Inc. 400 Oyster Point Blvd, Suite 505 South San Francisco, CA 94080

Attention: Kate Beebe DeVarney, PhD Executive VP and Chief Scientific Officer

Dear Dr. DeVarney:

Please refer to your Supplemental New Drug Application (sNDA) dated and received February 23, 2018, and your amendments, submitted pursuant to section 505(b)(2) of the Federal Food, Drug, and Cosmetic Act (FDCA) for PROBUPHINE (buprenorphine) implant.

This Prior Approval supplemental new drug application proposes modifications to the approved risk evaluation and mitigation strategy (REMS) for PROBUPHINE (buprenorphine) implant.

We have completed our review of this supplemental application, as amended. It is approved, effective on the date of this letter.

# **RISK EVALUATION AND MITIGATION STRATEGY REQUIREMENTS**

The REMS for PROBUPHINE (buprenorphine) implant was originally approved on May 26, 2016, and the most recent REMS modification was approved on April 19, 2017. The REMS consists of a Medication Guide, elements to assure safe use, an implementation system, and a timetable for submission of assessments of the REMS. The proposed modification to the REMS consists primarily of changes to the REMS document and appended materials to include pharmacy certification requirements.

In accordance with section 505-1 of the FDCA, we have determined that the following REMS modifications are necessary to ensure that the benefits of the drug outweighs the risks:

- a change to the REMS goals to add a goal regarding ensuring pharmacy certification;
- adding the requirement that pharmacies that dispense PROBUPHINE (buprenorphine) implant be specially certified.

Your proposed modified REMS, submitted on February 23, 2018, amended and appended to this letter, is approved.

The timetables for submission of assessments of the REMS remain the same as that approved on May 26, 2016.

There are no changes to the REMS assessment plan described in our May 5, 2017, letter.

We remind you that in addition to the REMS assessments submitted according to the timetable in the approved REMS, you must include an adequate rationale to support a proposed REMS modification for the addition, modification, or removal of any goal or element of the REMS, as described in section 505-1(g)(4) of the FDCA.

We also remind you that you must submit a REMS assessment when you submit a supplemental application for a new indication for use as described in section 505-1(g)(2)(A) of the FDCA. This assessment should include:

- a) An evaluation of how the benefit-risk profile will or will not change with the new indication;
- b) A determination of the implications of a change in the benefit-risk profile for the current REMS;
- c) *If the new indication for use introduces unexpected risks*: A description of those risks and an evaluation of whether those risks can be appropriately managed with the currently approved REMS.
- d) If a REMS assessment was submitted in the 18 months prior to submission of the supplemental application for a new indication for use: A statement about whether the REMS was meeting its goals at the time of the last assessment and if any modifications of the REMS have been proposed since that assessment.
- e) If a REMS assessment has not been submitted in the 18 months prior to submission of the supplemental application for a new indication for use: Provision of as many of the currently listed assessment plan items as is feasible.
- f) If you propose a REMS modification based on a change in the benefit-risk profile or because of the new indication of use, submit an adequate rationale to support the modification, including: Provision of the reason(s) why the proposed REMS modification is necessary, the potential effect on the serious risk(s) for which the REMS was required, on patient access to the drug, and/or on the burden on the health care delivery system; and other appropriate evidence or data to support the proposed change. Additionally, include any changes to the assessment plan necessary to assess the proposed modified REMS. If you are not proposing REMS modifications, provide a rationale for why the REMS does not need to be modified.

If the assessment instruments and methodology for your REMS assessments are not included in the REMS supporting document, or if you propose changes to the submitted assessment instruments or methodology, you should update the REMS supporting document to include specific assessment instrument and methodology information at least 90 days before the assessments will be conducted. Updates to the REMS supporting document may be included in a new document that references previous REMS supporting document submission(s) for unchanged portions. Alternatively, updates may be made by modifying the complete previous REMS supporting document, with all changes marked and highlighted. Prominently identify the submission containing the assessment instruments and methodology with the following wording in bold capital letters at the top of the first page of the submission:

# NDA 204442 REMS CORRESPONDENCE (insert concise description of content in bold capital letters, e.g., ) UPDATE TO REMS SUPPORTING DOCUMENT - ASSESSMENT METHODOLOGY

An authorized generic drug under this NDA must have an approved REMS prior to marketing. Should you decide to market, sell, or distribute an authorized generic drug under this NDA, contact us to discuss what will be required in the authorized generic drug REMS submission.

We remind you that section 505-1(f)(8) of FDCA prohibits holders of an approved covered application with elements to assure safe use from using any element to block or delay approval of an application under section 505(b)(2) or (j). A violation of this provision in 505-1(f) could result in enforcement action.

Prominently identify any submission containing the REMS assessments or proposed modifications of the REMS with the following wording in bold capital letters at the top of the first page of the submission as appropriate:

### NDA 204442 REMS ASSESSMENT

or

NEW SUPPLEMENT FOR NDA 204442/S-000 CHANGES BEING EFFECTED IN 30 DAYS PROPOSED MINOR REMS MODIFICATION

or

NEW SUPPLEMENT FOR NDA 204442/S-000 PRIOR APPROVAL SUPPLEMENT PROPOSED MAJOR REMS MODIFICATION

or

## NEW SUPPLEMENT FOR NDA 204442/S-000 PRIOR APPROVAL SUPPLEMENT PROPOSED REMS MODIFICATIONS DUE TO SAFETY LABELING CHANGES SUBMITTED IN SUPPLEMENT XXX

or

## NEW SUPPLEMENT (NEW INDICATION FOR USE) FOR NDA 204442/S-000 REMS ASSESSMENT PROPOSED REMS MODIFICATION (if included)

Should you choose to submit a REMS revision, prominently identify the submission containing the REMS revisions with the following wording in bold capital letters at the top of the first page of the submission:

### **REMS REVISIONS FOR NDA 204442**

To facilitate review of your submission, we request that you submit your proposed modified REMS and other REMS-related materials in Microsoft Word format. If certain documents, such as enrollment forms, or website screenshots are only in PDF format, they may be submitted as such, but Word format is preferred.

### SUBMISSION OF REMS DOCUMENT IN SPL FORMAT

FDA can accept the REMS document in Structured Product Labeling (SPL) format. If you intend to submit the REMS document in SPL format, as soon as possible, but no later than 14 days from the date of this letter, submit the REMS document in SPL format using the FDA automated drug registration and listing system (eLIST).

For more information on submitting REMS in SPL format, please email REMS Website@fda.hhs.gov.

# **REPORTING REQUIREMENTS**

We remind you that you must comply with reporting requirements for an approved NDA (21 CFR 314.80 and 314.81).

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If you have any questions, call LCDR Mark A. Liberatore, PharmD, RAC, at (301) 796-2221.

Sincerely,

*{See appended electronic signature page}* 

Judith A. Racoosin, MD, MPH Deputy Director for Safety Division of Anesthesia, Analgesia, and Addiction Products Office of Drug Evaluation II Center for Drug Evaluation and Research

ENCLOSURE: REMS This is a representation of an electronic record that was signed electronically. Following this are manifestations of any and all electronic signatures for this electronic record.

/s/

JUDITH A RACOOSIN 11/01/2018