## UNITED STATES PATENT AND TRADEMARK OFFICE

### BEFORE THE PATENT TRIAL AND APPEALS BOARD

AMNEAL PHARMACEUTICALS LLC
Petitioner

V.

HOSPIRA, INC Patent Owner

Inter Partes Review No. IPR2016-01579 Patent 8,455,527

DECLARATION OF JAMES GORDON CAIN, MD, MBA, FAAP



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### I. INTRODUCTION

- I, James Gordon Cain, MD, MBA, FAAP, declare as follows:
- 1. I am over 18 years of age. I have personal knowledge of the facts stated in this declaration and could testify competently to them if asked to do so.
- 2. In this proceeding before the U.S. Patent and Trademark Office ("USPTO"), I have been retained by Amneal Pharmaceuticals LLC ("Amneal" or "Petitioner") as an independent expert consultant. Although I am receiving compensation at my standard consulting rate for the time that I spend on this proceeding, I have no other interest in its result. I also expect to be reimbursed for reasonable expenses incurred in relation to my consulting. My compensation is independent of the opinions rendered or the outcome of this proceeding.
- 3. I understand that this proceeding involves U.S. Patent No. 8,455,527 ("the '527 patent"), Ex. 1001, issued on June 4, 2013, and that the '527 patent issued from U.S. Application 13/678,148 (Ex. 1054, "the '148 application") filed on November 15, 2012. The '148 application was a continuation of U.S. Application No. 13/541,524 (Ex. 1048, "the '524 application"), which was filed on July 3, 2012, and issued as U.S. Patent No. 8,338,470 (Ex. 1053; "the '470 patent"). The '524 application, in turn, was a continuation of the U.S. Application No. 13/343,672 (Ex. 1006), which was filed on January 4, 2012, and issued as U.S. Patent No. 8,242,158 (Ex. 1047; "the '158 patent"). Accordingly, the earliest



possible effective filing date of the '470 patent is January 4, 2012.

4. I have been asked by counsel for Amneal to explain the technical subject matter of the '527 patent and its background. I have also been asked to explain whether prior art discloses the compositions claimed in the '527 patent. My opinions are set forth below.

## II. QUALIFICATIONS & BACKGROUND

- 5. My qualifications and credentials are fully set forth in my *curriculum vitae*, attached hereto as Exhibit A. I am an expert in the fields of clinical anesthesia and sedation, with significant experience with ready-to-use medications. In particular, I am knowledgeable about the use of dexmedetomidine for sedation purposes. For the past 24 years, I have accumulated significant training and experience in these and related fields.
- 6. In 1987, I received a B.S. in Biology from the University of Scranton. In 1992, I received my M.D. from the School of Medicine at the University of Pittsburgh. From 1992-1993, I attended Yale University as a Primary-Care Internal Medicine intern. Through the Massachusetts General Hospital at Harvard University, I completed my Anesthesiology Residency from 1993-1996 and Critical Care Medicine Fellowship in 1997 as well as my Adult and Pediatric Cardiac Anesthesiology Fellowship from 1995-1996 at the Massachusetts General Hospital and Boston Children's Hospital.



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