On Behalf Of:

Noven Pharmaceuticals, Inc.

UNITED STATES PATENT AND TRADEMARK OFFICE
_____

BEFORE THE PATENT TRIAL AND APPEAL BOARD
_____

NOVEN PHARMACEUTICALS, INC.,
Petitioner

v.

NOVARTIS AG AND LTS LOHMANN THERAPIE-SYSTEME AG,
Patent Owners

_____

Inter Partes Review No.: 2014-00549

U.S. Patent 6,316,023

REPLY DECLARATION OF AGIS KYDONIEUS, PH.D.

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APPENDICIES

APPENDIX A: Sasaki (Exhibit 1005) Working Examples Calculation

APPENDIX B: Calculation of Antioxidant Weight Percentage for Elmalem (Exhibit 1009)

I, Agis Kydonieus, Ph.D., declare and state as follows:

I.   QUALIFICATIONS

1.   I previously submitted a Declarations in IPR2014-00549 (Exhibit 1010) setting forth my background and credentials. My curriculum vitae (Exhibit 1023) sets forth my education and experience in further detail, and I further explained my background during my January 13, 2015 deposition (Exhibit 1030 at 107:2-109:13).

II.   INFORMATION CONSIDERED

2.   In forming the opinions set forth herein, I have considered the documents and exhibits referenced by Patent Owners and those referenced by Dr. Klibanov in his declaration (Exhibit 2012). I have also relied on my own experiences and knowledge, and have also considered the documents referenced in my initial declaration (Exhibit 1010) and those I mentioned during my deposition (Exhibit 1030).

3.   I have also considered the documents discussed herein, which include the following:

- The Board's institution Decision for IPR2014-00549 (Paper 10).

- The transcript for the *Novartis v Noven* trial that was held December 1-3, 2014. (Exhibits 1026-1028.)

- Internal Novartis memorandum written by Dr. Tiemessen, N0272228-29. (Exhibit 1033.)

- Internal Novartis e-mail communication from Dr. Tiemessen to O. Garinot, N0272563. (Exhibit 1034.)

- ███████████ Meeting minutes of the LTS-Sandoz (Novartis) working group, N0317247-64. (Exhibit 1035.)

- Excerpts of the confidential transcript of the October 17-18, 2012 deposition of Dr. Henricus L.G.M. Tiemessen. (Exhibit 1036.)

- Morrison and Boyd, 2nd Ed. 1992. (Exhibit 1038.)

- PDR Medical Dictionary, 1st Ed. 1995. (Exhibit 1039.)

- CRC Handbook of Chemistry and Physics. (Exhibit 1040.)

- U.S. Patent 7,683,205. (Exhibit 1041.)

- U.S. Patent 8,324,429. (Exhibit 1042.)

- Toronto Research Chemicals Inc. web page. (Exhibit 1044.)

- David Shamah, *Alzheimer Drug Pioneer to Get Israel Prize, Professor Weinstock-Rosin, who developed Exelon, will be recognized for her work on Israel Independence Day*, TIMES OF ISRAEL, Mar. 4, 2014. (Exhibit 1045.)

- Textbook of Polymer Science, Chapter 9 (Billmeyer, 2d ed. 1971). (Exhibit 1046.)

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