

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE  
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BEFORE THE PATENT TRIAL AND APPEAL BOARD  
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INNOPHARMA LICENSING, INC., INNOPHARMA LICENSING LLC,  
INNOPHARMA INC., INNOPHARMA LLC,  
MYLAN PHARMACEUTICALS INC., and MYLAN INC.  
Petitioner,

v.

SENJU PHARMACEUTICAL CO., LTD., BAUSCH & LOMB, INC., and  
BAUSCH & LOMB PHARMA HOLDINGS CORP.  
Patent Owner.

\_\_\_\_\_  
Case IPR2015-00902 (Patent 8,669,290 B2)  
Case IPR2015-00903 (Patent 8,129,431 B2)<sup>1</sup>  
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**REPLY DECLARATION OF PAUL A. LASKAR, PH.D.**

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<sup>1</sup> A word-for-word identical paper has been filed in each proceeding identified in the heading. IPR2015-01871 has been joined with IPR2015-00903 and includes Petitioners Lupin Ltd. and Lupin Pharmaceuticals Inc. in addition to the parties identified above.

***I. List of documents I considered in formulating my opinion in this declaration***

1. In formulating my opinion below, I have considered all documents cited in this Declaration.

***II. The Disclosure of Fu includes Tyloxapol***

2. Patent Owners' experts take the position that Fu does not disclose tyloxapol to a skilled artisan. (EX2082, ¶¶ 92, 94, 180 / ¶¶ 84, 86, 136; EX2105, ¶ 94 / ¶ 92).<sup>2</sup> I disagree. Fu teaches that the "nonionic ethoxylated octylphenol surfactant is an octylphenoxy poly(ethyleneoxy) ethanol with a mole ratio of ethylene oxide to octylphenol of between 3:1 and 40:1." (See, e.g., EX1011, Claim 3).<sup>3</sup> Therefore, Fu teaches a series of ethoxylated octylphenol surfactant. (See also EX1079, 112:7-16 (Patent Owner's expert admitting that given these mole ratios, Fu discloses a "series of octoxynols"))).

3. Tyloxapol falls within the series disclosed by Fu. The mole ratio of ethylene oxide to octylphenol of tyloxapol is 8-10 to 1. (See EX2105, ¶ 86 / ¶ 84

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<sup>2</sup> Citations to the Declarations of Dr. Williams and Dr. Davies are to the paragraph number(s) to their declarations in IPR2015-00902, followed by the paragraphs number(s) to their declarations in IPR2015-00903, with a slash separating the two.

<sup>3</sup> Citations to the exhibits of record will be to the exhibit numbers in IPR2015-00902 unless stated otherwise.

(providing n and m values of tyloxapol);<sup>4</sup> EX1091, col. 1, lines 45-61 (“A preferred compound of this group is the product containing **ten ether groups per p-tertiary-octylphenol nucleus** which is known under the brand names, Superinone and Triton WR-1339, chemically as oxyethylated tertiary octylphenol formaldehyde polymer or p-isooctylpoly-oxyethylenephenol formaldehyde polymer, and, **generically as tyloxapol**”) (emphasis added). Thus, a skilled artisan would conclude that tyloxapol falls within the disclosure of Fu.

### *III. Tyloxapol is an Antioxidant*

4. I understand that Patent Owners’ experts have stated that since Ogawa Example 6 is a bromfenac formulation, the bromfenac in the solution is susceptible to oxidation. (EX2105, ¶ 74 / ¶ 72) (“Ogawa Example 6 is a bromfenac formulation, and bromfenac is susceptible to oxidation”). Moreover, Patent Owners’ experts have identified the surfactant polysorbate 80 as the source of bromfenac’s degradation in Ogawa providing a motivation to replace the

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<sup>4</sup> The values reported by Dr. Davies are consistent with Schott (EX1019 / EX1024). Using Schott, which states that “[t]yloxapol is essentially an oligomer of octoxynol 9” including explaining that “[d]espite the methylene bridges, it has practically the same hydrophilic-lipophilic balance as octoxynol,” the mole ratio of ethylene oxide to octylphenol of tyloxapol is 9.6 to 1.

surfactant. (*Id.* (“A person of ordinary skill in the art would expect bromfenac to degrade in the presence of . . . polysorbate 80.”)).<sup>5</sup>

5. I made a similar observation about the [REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]; *see also* EX2114, 157:18-22 ([REDACTED]

[REDACTED]

[REDACTED]).

6. I also explained during my deposition, [REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

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<sup>5</sup> In that same section, Dr. Davies also takes the position that tyloxapol would also lead to the generation of peroxides and hydroperoxides. I disagree, and I will address Dr. Davies’ contentions later in this declaration.



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