

# **Evaluation Report for Category B, Subcategory 1.3 Application**

Application Number:	2014-4923
Application:	Changes TGAI Chemistry-Specifications
Product:	Famoxadone Technical
<b>Registration Number:</b>	27436
Active ingredients (a.i.):	famoxadone
<b>PMRA Document Number</b>	: 2552331

## **Purpose of Application**

The purpose of this application was to amend the manufacturing process and update the product specification.

### **Chemistry Assessment**

Common Name:	famoxadone
CAS Chemical Name:	5-methyl-5-(4-phenoxyphenyl)-3-(phenylamino)-2,4-
	oxazolidinedione
IUPAC Chemical Name:	rac-(5R)-3-anilino-5-methyl-5-(4-phenoxyphenyl)-1,3-oxazolidine-
	2,4-dione

Famoxadone Technical has the following properties:

Property	Result
Colour and physical state	Pale cream powder
Nominal concentration	97.8%
Odour	Characteristic of burnt plastic and similar to vanilla
Specific gravity	1.310
Vapour pressure	6.4 x 10 <sup>-7</sup> Pa at 20°C
рН	6.56



Property	Result	
Solubility in water at 20°C	p <u>H</u> unbuffered 2 3 5 7 9	μ <u>g/L</u> 52 143 191 243 111 38
n-Octanol/water partition coefficient (K <sub>ow</sub> )	<u>pH</u> 3.0 5.0 7.0 9.0	<u>log K<sub>ow</sub></u> 4.59 4.80 4.65 5.55

The chemistry requirements for Famoxadone Technical have been fulfilled.

#### Health Assessments

The change in manufacturing process of Famoxadone Technical results in a product that is toxicologically equivalent to that of the original process. No toxicological data were reviewed or are required.

Food residues and occupational assessments were not required for this application.

### **Environmental and Value Assessments**

It was determined that environmental and value assessments were not required for this application.

#### Conclusion

Following review of the application the amendment to the the manufacturing process and product specification were approved.

#### References

PMRA Document Number	Reference
2468079	2014, DuPont - 40617: Batch Analysis Of Famoxadone (DPX-JE874) Technical - Confidential, Daco: 2.13.3 CBI
2468080	2014, DuPont - 40617: Batch Analysis of Famoxadone (DPX-JE874) Technical - Non- Confidential, DACO: 2.13.3

2468081	2014, DuPont - 40041: Technical Grade Famoxadone (DPX-JE874) Manufacturing Description and Formation of Impurities- Confidential, DACO: 2.11.1,2.11.2,2.11.3,2.11.4 CBI
2468083	2014, Dupont - 40041: Technical Grade Famoxadone (DPX-JE874) Manufacturing Description and Formation of Impurities- Non Confidential, DACO: 2.11.1,2.11.2,2.11.3,2.11.4
2468084	2014, Famoxadone (DPX-JE874) Identity, Composition, and Certified Limits - Non Confiedential, DACO: 2.12.1
2468085	2014, Famoxadone (DPX-JE874) Identity, Composition, and Certified Limits - Confidential, DACO: 2.12.1 CBI
2468086	2014, Description and Validation of the Analytical Method for Determination of Residual Solvent in Technical Grade Famoxadone (DPX-JE874)-Non Confidential, DACO: 2.13.1
2468087	2014, Description and Validation of the Analytical Method for Determination of Residual Solvent In Technical Grade Famoxadone (DPX-JE874) - Confidential, DACO: 2.13.1 CBI
2468088	2014, Batch Analysis of Famoxadone (DPX-JE874) Technical - Confidential, DACO: 2.13 CBI
2468090	2014, Batch Analysis of Famoxadone (DPX-JE874) Technical- Non- Confidential, DACO: 2.13, CBI
2490991	2012, Description and Validation of the Analytical Methods for Determination of Impurities in Technical Grade Famoxadone (DPX-JE874), DACO: 2.13.1 CBI
2490992	2012, Description and Validation of the Analytical Methods for Determination of Impurities in Technical Grade Famoxadone (DPX-JE874), DACO: 2.13.1
2490993	2012, Confirmation of Impurities Identification in Technical Grade Famoxadone (DPX-JE874) by Mass Spectroscopy and UV/Vis Detection, DACO: 2.13.1 CBI
2490994	2012, Confirmation of Impurities Identification in Technical Grade Famoxadone (DPX-JE874) by Mass Spectroscopy and UV/Vis Detection, DACO: 2.13.1 CBI
2490996	2011, Determination of Famoxadone (DPX-JE874) in Technical Grade Famoxadone, DACO: 2.13.1 CBI
2490997	2011, Validation of the Analytical Method for Determination of Famoxadone (DPX-JE874) in Technical Grade Famoxadone, DACO: 2.13.1 CBI
2490998	2011, Validation of the Analytical Method for Determination of Famoxadone (DPX-JE874) in Technical Grade Famoxadone, DACO: 2.13.1

2490999	2011, Determination of [CBI removed] in Famoxadone Technical Gas Chromatographic (GC) Trace Level Method, DACO: 2.13.1 CBI
2491000	2011, Determination Of [CBI removed] in Famoxadone Technical Gas Chromatographic (GC) Mass Spectrometry Trace Level Method, DACO: 2.13.1 CBI
2491001	2011, Determination of Famoxadone in Famoxadone Technical Reversed- Phase Liquid Chromatographic (RPLC) Assay Method, DACO: 2.13.1 CBI
2491002	2011, Determination of [CBI removed] in Famoxadone Technical Reversed- Phase Liquid Chromatographic (RPLC) Trace Level Method, DACO: 2.13.1 CBI
2491003	2011, Determination of [CBI removed] in Famoxadone Technical Reversed- Phase Liquid Chromatographic (RPLC)/Mass Spectrometry Trace Level Method, DACO: 2.13.1 CBI
2491004	2010, Technical And Formulated Pesticides and Other Substances Determination of Inorganic Anions And Cations Ion Chromatography (IC) Method, DACO: 2.13.1 CBI
2491005	2008, Determination of [CBI removed] Method, DACO: 2.13.1

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