XIAMEN MAYAH PHARMA CO., LTD.



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CERTIFICATE OF ANALYSIS

Product Name:	Levomilnacipran HCl (1S,2R)-2-(aminomethyl)-N,N-diethyl-1-phenylcyclopropanecarboxamide hydrochloride	
Batch No.:	20131101	
MFG. Date:	Nov. 10, 2013	
Expire Date:	Nov. 09, 2015	
Quantity:	5kgs	

ITEMS	SPECIFICATION	RESULTS
Description	White to off-white crystalline powder	Conforms
Solubility	Freely soluble in water and methanol	Conforms
Identification By IR	Conforms to Reference Standard/Working Standard similarly determined.	Conforms
Identification By HPLC	The RT of the major peak in the chromatogram of the sample preparation corresponds to that of the standard preparation, as obtained in the assay	Conforms
PH (1%w/v solution)	4.0 ~ 6.0	5.5
Loss on Drying	≤0.5%	0.21%
Residue On Ignition	≤0.1%	0.08%
Heavy Metals	≤10ppm	Conforms
Specific Optical Rotation	+ 82° ~ +92°	+ 86.5°
Optical purity	99%Min	99.5%
Related Substance Single impurity Total impurities	≤0.20% ≤0.50%	0.09% 0.17%

Residue solvent		
Ethanol	≤5000ppm	Conforms
Methanol	≤3000ppm	Conforms
DMF	≤880ppm	Conforms
Dichloromethane	≤600ppm	Conforms
Isopropanol	≤5000ppm	Conforms
Ethyl Acetate	≤5000ppm	Conforms
Assay on Dried Basis	98.5% ~ 101.5%	100.6%
Conclusion:	It conforms to our in-house specification.	