



Ipca Laboratories Limited

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QUALITY DIVISION
CERTIFICATE OF ANALYSIS

NAME OF THE PRODUCT : FUROSEMIDE Ph. Eur.		
BATCH SIZE	: 651.0 Kgs	BATCH No. : 1015HR11
MFG. DATE	: Mar. 2011	A. R. No. : IBD - 111043
EXP. DATE	: Feb. 2016	DATE : 02/04/2011
TESTS	SPECIFICATIONS	RESULTS
CHARACTERS	A white or almost white, crystalline powder, practically insoluble in water, soluble in acetone, sparingly soluble in Ethanol (96%), practically insoluble in methylene chloride. It dissolves in dilute solutions of alkali hydroxides.	Conforms
IDENTIFICATION	It melts at about 210°C, with decomposition. A. Examined between 220 nm and 350 nm the solution shows three absorption maxima, at 228 nm, 270 nm and 333 nm. The ratio of the absorbance at 270 nm to that at 228 nm is 0.52 to 0.57. B. Infrared absorption spectra of sample and standard are concordant.	Conforms Conforms
RELATED SUBSTANCES (By HPLC)	C. A violet-red colour develops. Impurity A : NMT 0.25% Impurity B : NMT 0.25% Impurity C : NMT 0.25% Impurity D : NMT 0.25% Impurity E : NMT 0.25% Unidentified impurity : NMT 0.10% Sum of impurity : NMT 0.50%	Conforms < 0.05% Not Detected 0.14% < 0.05% < 0.05% < 0.05% 0.14%
CHLORIDES	NMT 200 ppm	< 200 ppm
SULPHATES	NMT 300 ppm	< 300 ppm
HEAVY METALS	NMT 20 ppm	< 20 ppm
LOSS ON DRYING (at 105°C)	NMT 0.5% w/w	0.30% w/w
SULPHATED ASH	NMT 0.1% w/w	0.06% w/w
ASSAY	98.5% - 101.0% w/w of C ₁₂ H ₁₁ ClN ₂ O ₅ S (on dried basis)	99.7% w/w (odb)
REMARKS : The above sample CONFORMS as per Ph. Eur. Specifications.		


ANALYST

DATE : 02/05/2011


MANAGER QUALITY CONTROL

DATE OF PRINT : 02/05/2011