TEL. : 07412 – 278244, 278259, 278000 TELEFAX : 07412 – 278084, 279083

Ipca Laboratories Limited

P.O. SEJAVTA 457 002. DIST. RATLAM (M. P.)



QUALITY DIVISION CERTIFICATE OF ANALYSIS

NAME OF THE PRODUCT: HYDROCHLOROTHIAZIDE Ph.Eur.

BATCH SIZE : 105.0 Kgs BATCH No. : 1005HC8RII

MFG. DATE : Aug. 2011 A.R. No. : IBD – 112811

RETEST DATE : Jul. 2016 DATE : 18/12/2012

TESTS	SPECIFICATIONS		RESULTS
CHARACTERS	A white or almost white, crystalline powder, very slightly soluble in water, soluble in acetone, sparingly soluble in ethanol (96%). It dissolves in dilute solutions of alkali hydroxides.		Conforms
IDENTIFICATION	The infrared absorption spectrum of sample and standard are concordant.		Conforms
ACIDITY OR	The solution is yellow. NMT 0.4 ml of 0.01M hydrochloric acid is required to		Conforms
ALKALINITY	change the colour of the indicator to red.	NIMT O FOO!	0.450/
RELATED SUBSTANCES	4-Amino-6-Chloro-1,3-Benzenedisulfonamide [Impurity B] 6-chloro-N-[(6-chloro-7-sulphamoyl-2,3-dihydro-4H-1,2,4-	:NMT 0.50% :NMT 0.50%	0.15% 0.20%
(By HPLC)	benzothiadiazin-4-yl1,1-dioxide)methyl]-3,4-dihydro-2H-1,2,4-	.141411 0.5076	0.2076
(By TIFEO)	benzothiadiazine-7-sulphonamide 1,1-dioxide [Impurity C]		
	Chlorothiazide [Impurity A]	:NMT 0.50%	< 0.05%
	Any unspecified impurity	:NMT 0.10%	< 0.05%
	Sum of all impurities	:NMT 1.0%	0.35%
CHLORIDES	NMT 100 ppm.		< 100 ppm
LOSS ON DRYING	NMT 0.5% w/w		0.30% w/w
(at 105°C)	NIMT 0 40/ with		0.08% w/w
SULPHATED ASH RESIDUAL SOLVENT	NMT 0.1% w/w Methanol : NMT 1500 ppm		Not Detected
FORMALDEHYDE	NMT 50 ppm		33 ppm
CONTENT	Time oo ppin		оо ррт
ASSAY (By HPLC)	97.5% - 102.0% w/w of C ₇ H ₈ CIN ₃ O ₄ S ₂ (on dried basis)		99.2% (odb)
PARTICLE SIZE			43 µm
(By Malvern)	SD : Maximum 72 µm		31 µm
	d10 : Minimum 7 μm		14 µm
	d50 : For Information		39 μm
Additional USP	d90 : For Information		77 μm
Requirements :			
IDENTIFICATION	A Infrared absorption spectrum of test and standard are concordant		Conforms
	B The UV absorption spectra of a 10µg/ml solution of tests and standard in methanol, exhibit maxima and minima at the same wavelengths.		Conforms
LOSS ON DRYING	NMT 0.5% w/w		0.27% w/w
RESIDUE ON IGNITION	NMT 0.1% w/w		0.08% w/w
CHLORIDE	NMT 0.035% w/w		< 0.035% w/w
SELENIUM HEAVY METALS	NMT 0.003% w/w NMT 0.001% w/w		< 0.003% w/w < 0.001% w/w
RELATED		/IT 1.0%	0.15%
COMPOUNDS		AT 0.50%	0.31%
(BY HPLC)		AT 0.90%	0.47%
	Related Compound A		
ASSAY (BY HPLC)	98.0% - 102.0% of $C_7H_8CIN_3O_4S_2$ (on dried basis)		99.5% (odb)
REMARKS:	REMARKS: The above sample CONFORMS as per above specifications.		

PRADEEP RAIKWAR

ANALYST

DATE: 07/01/2015

043JKQ



NAVEEN BHAVSAR
MANAGER QUALITY CONTROL
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