

### Certificate of Analysis

Product	HYDROCHLOROTHIAZIDE	C.A.S. n.	58-93-5
Batch	680103	Formula	C7H8ClN3O4S2
Production date	March 2017	M.W.	297.7
Expiration Date	March 2022	T.S.	017.001
Analysis	March 27 2017		
Coa Number	CA4.330		

DETERMINATION	SPECIFICATION	RESULT
DESCRIPTION	White or almost white crystalline powder	COMPLIES
SOLUBILITY	NaOH sol.	Clear solution
	n-Butylamine	Clear solution
	Dimethylformamide	Clear solution
COLOR	Abs. at 420 nm in NaOH sol.	NMT 0.100
IDENTIFICATIONS	IR spectrum	Conforms to standard
	UV spectrum - USP	Conforms to standard
	UV spectrum - EuPh	Abs ratio 273/323 between 5.4 - 5.7
RESIDUE ON IGNITION		NMT 0.1 %
HEAVY METALS		NMT 10 ppm
LOSS ON DRYING		NMT 0.5 %
WATER		NMT 0.5 %
ASSAY	By HPLC (on dried basis)	98.0 / 102.0 %
RELATED SUBSTANCES BY HPLC	4-NH <sub>2</sub> -6-Cl-1,3-benzenedisulphonamide (DSA, USP-A/EP-B)	NMT 0.500 %
	Chlorothiazide (EP-A/USP)	NMT 0.500 %
	Dimer (EP-C/USP)	NMT 0.300 %
	Any unspecified impurity	NMT 0.100 %
	Total impurities (EP requirement)	NMT 1.00 %
	Total impurities excluding DSA (USP requirement)	NMT 0.900 %
CHLORIDES		NMT 100 ppm
SELENIUM		NMT 30 ppm
ACIDITY-ALKALINITY	0.01M HCl	NMT 0.4 ml

This batch has been manufactured, packaged and tested in accordance with EU GMP Guideline Volume 4 Part II (ICHQ7)

The product conforms to requirements of:  
USP39 - EuPh9

Approved by Qualified Person / Quality Director  
Roberto Baima  
03-27-2017

This Certificate of Analysis has been approved by the Qualified Person / Quality Director and produced automatically with validated electronic signature