

## **PRODUCT SPECIFICATIONS AND**

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CERTIFICATE OF ANALYSIS

Product Name:

Hydrochlorothiazide

Control No.:

726106412

Order No.:

DMF

Customer Name: MERCK & COMPANY INC

Quantity:

1243.000 KG Quality Market: EUR

Client Packing Order:

Manufacturing Site:

ABIC LTD. - NETANYA

Original Analysis Date:

16-December-2012

Manufacturing Date:

November 2012

Last Analysis Date:

03-September-2014

Re Test date: October 2017

Packaging and storage:

Preserve in well-closed containers at 25°C. Excursions permitted up to 40°C.

Packed with desiccant

TESTS AND METHODS	SPECIFICATIONS	RESULTS*		
IN-HOUSE Based on Ph.Eur TESTS				
Characters	White or almost white, crystalline powder.	Conforms		
Identification by IR Infrared Spectrophotometry (2.2.24)	The Infrared absorption spectrum of the sample compares with the spectrum obtained with Hydrochlorothiazide CRS.	Conforms		
Acidity or Alkalinity	Conforms to test criteria	conforms		
Chlorides (Ph.Eur.2.4.4)	Not more than 100ppm	Less than 100ppm		
Loss on drying (Ph.Eur. 2.2.32)	Not more than 0.5%	0.12%		
Sulphated ash (Ph.Eur. 2.4.14)	Not more than 0.1%	0.02%		

5 Basel Street, P.O.Box 3190 Petach-Tikva 4951033, Israel

Manufacturing site: Kiryat Sapir Industrial Zone, P.O. Box 8077 Netanya 4250483, Israel TEL. 972-9-8639616 FAX. 972-9-8639852



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	IN-HOUSE Based on Ph.Eur TESTS	
Related substances (by HPLC) (7261-IH-EP-Based)		
6-chloro-2H-1,2,4-benzothiadiazine-7-sulfonamide 1,1-dioxide (Impurity A - CLT)	Not more than 0.50%	0.07%
4-Amino-6-Chlorobenzene-1,3-disulfonamid e (salamide) (Impurity B - DSA)	Not more than 0.40%	0.07%
6-chloro-N-[(6-chloro-7-sulphamoyl-2,3-dih ydro-4H-1,2,4-benzothiadiazin-4-yl 1,1-dioxide)methyl]-3,4-dihydro-2H-1,2,4- benzothiadiazine-7-sulphonamide 1,1-dioxide (Impurity C - HCTZ Dimer)	Not more than 0.50%	Less than 0.05%
Any unspecified impurity	Not more than 0.10%	Less than 0.05%
Total impurities	Not more than 0.90%	0.14%
Assay (By HPLC)	97.5%-102.0% on dried substace.	100.1%
	IN-HOUSE FOR EUR TESTS	•
Solubility (7261-IH-EUR)	Soluble in Acetone and in dilute solutions of Alkali Hydroxides.	Conforms
(1201-111-120K) Selenium (USP<291>)	Not more than 0.003%.	Less than 0.003%
Heavy metals (USP<231>Mehod II)	Not more than 0.001 %	Less than 0.001%

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TESTS AND METHODS	SPECIFICATIONS	RESULTS*
	Merck Client Specific TESTS	
Particle size distribution by Laser diffraction (Malvern)	MV: 25-97μm	38µm
	SD Max: 72um	21,000

## Remarks:

- 1. Conforms to the requirements of the IN-HOUSE Based on Ph.Eur and IN-HOUSE FOR EUR and Merck Client Specific Specifications.
- 2. The product meets the requirements for residual solvents USP <467> and ICH guide Q3C. The non-ICH solvents are supported by suitable qualification information.

Print Date: 4 September 2014

3. Corresponds to Current European Pharmacopeia.

Released by Quality Control Manager:

Signature\*\*: PP\ Sveta Shlahman

4 September 2014 15:02:11

Ariela Abiri

Anelo

(\*) Upon completion of the 'Results' column this document becomes a certificate of analysis

End of C.O.A.

(\*\*) This document was signed electronically and this is the manifestation of the electronic signature.

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