

## **CERTIFICATE OF ANALYSIS**

Product : THIAMINE HYDROCHLORIDE

Product number : T0614
Batch number : 014244
Date of production : 22-11-2018
Date of analysis : 13-12-2018
Date of expiry : 30-11-2023

Storage conditions : in well-closed non metallic container, protected from light

	SPECIFICATION	RESULT	UNITS	REMARKS
Appearance	white or almost white powder	complies		
Solubility	soluble in water	complies		
Identification	conform	complies		
Appearance of solution	clear and colour $\leq Y_7$ or $GY_7$	complies		5% in H <sub>2</sub> O
pH	2.7 - 3.3	3.1		2.5% in H <sub>2</sub> O
Nitrates	conform	complies		USP
Sulphates	≤ 300	< 300	ppm	
Heavy metals	≤ 10	< 10	ppm	
Lead	≤ 1	complies	ppm	
Zinc	≤ 25	≤ 25	ppm	
Nickel	≤ 10	complies	ppm	
Water	≤ 5.0	3.8	%	
Sulphated ash	≤ 0.1	< 0.1	%	
Absorption at 400 nm	≤ 0.025	0.007		USP, 10% in H <sub>2</sub> O
Related substances	conform	complies		
Residual solvents	conform	complies		ethanol
Assav	98.5 - 101.0	100.4	%	anhydrous substance

This certificate of analysis is conform the results of the manufacturer.

Conclusion: approved

Released by:

drs. Q. de Hoog, pharmacist

Department of Quality Control Duchefa B.V.

Date: 14-01-2019

The buyer is responsible to test each batch to ensure the product is suitable for their specific purpose.

 mail address:
 Postbus 809 - 2003 RV Haarlem - The Netherlands visiting address: A, Hofmanweg 71 - 2031 BH Haarlem
 telephone: +31(0)23 - 531 80 27
 531 90 93
 iban: NL54 INGB 0651 4661 80
 k.v.k. in Amsterdam: 34073001

 telefax:
 +31(0)23 - 531 80 27
 bic: INGBNL2A
 website: www.duchefa.com

e-mail:

info@duchefa.nl