

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 ₂ O
pH	2.7 – 3.3	3.1		2.5% in H ₂ 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 ₂ O
Related substances	conform	complies		
Residual solvents	conform	complies		ethanol
Assay	98.5 – 101.0	100.4	%	anhydrous substance

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

Conclusion: approved

Released by:



Date: 14-01-2019

drs. Q. de Hoog, pharmacist
 Department of Quality Control Duchefa B.V.

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