



CERTIFICATE OF ANALYSIS

Product : **L-THREONINE**
Product number : T0719
Batch number : 015199
Date of production : 12-04-2016
Date of expiry : 31-10-2023

Packaging and storage : store in a well closed container at room temperature

	SPECIFICATION	RESULT	UNITS	REMARKS
Appearance	white crystalline powder	complies		
Solubility	soluble in water	complies		
Identification	conform	complies		
Specific optical rotation	-29.0 – -27.6	-27.72	°	20 °C
pH	5.0 – 6.5	5.7		
Appearance of solution	clear and colourless	complies		
Chloride	≤ 0.02	complies	ppm	
Sulfate	≤ 0.02	complies	ppm	
Ammonium	≤ 0.02	complies	ppm	
Heavy metals	≤ 10	complies	ppm	as Pb
Iron	≤ 10	complies	ppm	
Loss on drying	≤ 0.2	0.07	%	
Residue on ignition	≤ 0.10	0.05	%	
Assay	99.0 – 101.0	99.46	%	

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

Conclusion: approved

Released by:

Date: 06-02-2020

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 its specific purpose.

