

CERTIFICATE OF ANALYSIS

Product : L-THREONINE

Product number : T0719
Batch number : 018132
Date of production : 27-12-2021
Date of expiry : 31-12-2024

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

Appearance Solubility Identification	SPECIFICATION white crystalline powder soluble in water conform	RESULT complies complies complies	UNITS	REMARKS
Specific optical rotation	-29.0 – -27.6	-28.4	o	20 °C
pH	5.0 - 6.5	5.6		
Appearance of solution	clear and colourless	complies		
Lead	\leq 3	≤ 2	ppm	as Pb
Chloride	≤ 0.02	complies	%	
Sulfate	≤ 0.02	complies	%	
Ammonium	≤ 0.02	complies	%	
Heavy metals	≤ 10	complies	ppm	as Pb
Iron	≤ 10	complies	ppm	
Loss on drying	≤ 0.2	0.15	%	
Residue on ignition	≤ 0.10	0.05	%	
Assay	99.0 - 101.0	99.62	%	

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

Conclusion: approved

Released by:

Q. de Hoog, MSc, pharmacist

Department of Quality Control Duchefa B.V.

Date: 22-11-2023

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