

CERTIFICATE OF ANALYSIS

Product : **L-SERINE**
 Product number : S0718
 Batch number : 014192
 Date of analysis : 12-08-2017
 Date of expiry : 31-07-2020

Packaging and storage : store in a well-closed container, protected from light

	SPECIFICATION	RESULT	UNITS	REMARKS
Appearance	white crystalline powder	complies		
Solubility	soluble in water	complies		
Identification	conform	complies		IR
Specific rotation	+14.0 – +16.0	+15.1	°	at 25C
Ammonium	≤ 200	0.00	ppm	
Chloride	≤ 200	< 200	ppm	
Sulfate	≤ 300	< 200	ppm	
Iron	≤ 10	< 10	ppm	
Loss on drying	≤ 0.5	0.01	%	
Residue on ignition	≤ 0.1	0.00	%	
Methanol	≤ 200	110	ppm	
Assay	98.5 – 101.0	100,4	%	dried 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: 10-12-2018

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