

CERTIFICATE OF ANALYSIS

Product : **L-SERINE**
Product number : S0718
Batch number : 013537
Date of analysis : 15-11-2017
Date of expiry : 30-11-2020

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

	SPECIFICATION	RESULT	UNITS	REMARKS
Appearance	white crystalline powder	complies		
Solubility	soluble in water	complies		20°C / 250 g/l
Identification	conform	complies		IR
pH	5.2 – 6.2	5.8		
Specific rotation	+14.0 – +15.6	+14.8	°	at 25C
Ammonium	≤ 0.02	< 0.02	%	
Chloride	≤ 0.020	< 0.020	%	
Sulfate	≤ 0.020	< 0.020	%	
Iron	≤ 10	< 10	ppm	
Heavy metals	≤ 5	< 5	ppm	as Pb
Loss on drying	≤ 0.20	0.07	%	
Residue on ignition	≤ 0.10	0.01	%	
Methanol	≤ 200	106	ppm	
Assay	99.0 – 101.0	100.2	%	dried substance

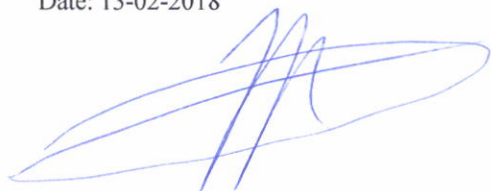
This certificate of analysis is conform the results of the manufacturer.

Conclusion: approved

Released by:

drs. M. van Wissen, pharmacist
Department of Quality Control Duchefa B.V.

Date: 13-02-2018



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