

CERTIFICATE OF ANALYSIS

Product : **ASPARAGINE MONOHYDRATE (L-)**
 Product number : A0725
 Batch number : 012397
 Date of manufacturing : 26-03-2016
 Date of analysis : 26-03-2016
 Expiry date : 31-03-2020

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

	SPECIFICATION	RESULT	UNITS
Appearance	white crystals or crystalline powder	complies	
Solubility	soluble in water (20°C / 30 g/l)		
Specific optical rotation	+34.3 – +36.5	+35.1	°
Loss on drying	11.5 – 12.5	11.79	%
Chloride (Cl)	≤ 200	< 200	ppm
Iron (Fe)	≤ 10	< 10	ppm
Transmittance	≥ 98.0	98.5	%
Sulphate (SO ₄)	≤ 200	< 200	ppm
Residue on ignition	≤ 0.10	0.079	%
Arsenic (As)	≤ 1	< 1	ppm
Heavy metals	≤ 10	< 10	ppm
Ammonium (NH ₄)	≤ 0.10	0.10	%
Other amino acids	≤ 1.0	0.81	%
Assay	≥ 98	99.3	%

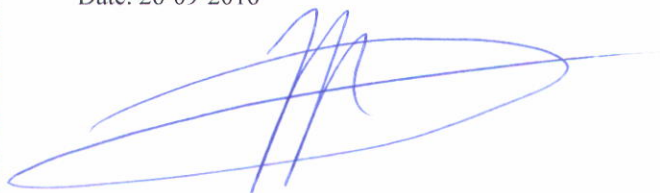
This certificate of analysis is conform the results of the manufacturer.

Conclusion: approved

Released by:

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

Date: 26-09-2016



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