

CERTIFICATE OF ANALYSIS

Product : **L-GLUTAMINE**
 Product number : G0708
 Batch number : 011749
 Date of production : 18-10-2014
 Date of expiry : 31-10-2017

Packaging and storage : store at room temperature

	SPECIFICATION	RESULT	UNITS	REMARKS
Appearance	crystalline powder, whitish	complies		
Solubility	soluble in water			18°C / 26 g/l
Specific rotation	+6.3 – +7.3	+6.73	°	
Heavy metals	< 5	< 5	ppm	
Loss on drying	≤ 0.3	0.14	%	
Residue on ignition	≤ 0.1	0.07	%	
Arsenic	≤ 0.1	< 0.1	ppm	
Lead	≤ 3	< 3	ppm	
Cadmium	≤ 1	< 1	ppm	
Mercury	≤ 0.1	< 0.1	ppm	
Microbiology:				
Aerobic plate count	≤ 1000	< 1000	cfu/g	
Yeast and moulds	≤ 100	< 100	cfu/g	
Coliforms	negative	complies		
Salmonella	negative	complies		
Assay	98.5 – 101.5	98.6	%	

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: 16-12-2015



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