

CERTIFICATE OF ANALYSIS

Product : **L-GLUTAMINE**
 Product number : G0708
 Batch number : 017710
 Date of production : 27-11-2022
 Date of expiry : 30-11-2025

Packaging and storage : store at room temperature

	SPECIFICATION	RESULT	UNITS	REMARKS
Appearance	white crystals or crystalline powder	complies		
Solubility	soluble in water			18°C / 26 g/l
Identification	conform	complies		IR-spectrum
pH	4.35 – 6.0	4.37		
Specific rotation	+6.3 – +7.3	+6.54	°	HCl-solution
Heavy metals	< 10	< 10	ppm	
Loss on drying	≤ 0.3	0.11	%	
Residue on ignition	≤ 0.1	0.10	%	
Arsenic	≤ 1	< 1	ppm	
Lead	≤ 3	< 3	ppm	
Cadmium	≤ 1	< 1	ppm	
Mercury	≤ 0.1	< 0.1	ppm	
Microbiology:				
Total plate count	≤ 1000	< 1000	cfu/g	
Yeast and moulds	≤ 100	< 100	cfu/g	
Salmonella	negative	complies	/10 g	
Assay	≥ 98.5	99.9	%	

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: 03-05-2023



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

Duchefa Biochemie B.V.