Duchefa Biochemie b.v.

biochemicaliën
biochemicals

CERTIFICATE OF ANALYSIS

Product	:	**L-GLUTAMINE**
Product number	:	G0708
Batch number	:	013014
Date of production	:	06-04-2017
Date of expiry	:	30-04-2020
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
Identification	conform	complies		IR-spectrum
pH	4.5 – 6.0	4.66		
Specific rotation	+6.3 – +7.3	+6.55	°	HCl-solution
Heavy metals	< 10	< 10	ppm	
Loss on drying	≤ 0.3	0.14	%	
Residue on ignition	≤ 0.3	0.06	%	
Arsenic	≤ 1	complies	ppm	
Lead	≤ 3	complies	ppm	
Cadmium	≤ 1	complies	ppm	
Mercury	≤ 0.1	complies	ppm	
Microbiology:				
Aerobic plate count	≤ 1000	complies	cfu/g	
Yeast and moulds	≤ 100	complies	cfu/g	
Coliforms	negative	complies	/1 g	
Salmonella	negative	complies	/10 g	
Assay	≥ 98.5	99.5	%	

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: 23-06-2017

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

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