

## CERTIFICATE OF ANALYSIS

Product : **L-GLUTAMIC ACID**  
 Product number : G0707  
 Batch number : 018316  
 Manufacturing date : 25-05-2022  
 Date of expiry : 31-05-2027

Packaging and storage : protected from light

	SPECIFICATION	RESULT	UNITS	REMARKS
Appearance	white or almost white, crystalline powder or colourless crystals	complies		
Identification	conform	complies		
Appearance of solution	clear and colourless	complies		
Appearance of solution	≥ 98.0	complies	%	transmittance
Specific rotation	+31.5 – +32.4	+32.1	°	
Chloride	≤ 0.020	complies	%	
Ammonium	≤ 0.02	complies	%	
Sulfate	≤ 0.020	complies	%	
Iron	≤ 10	complies	ppm	
Heavy metals	≤ 10	complies	ppm	
Arsenic	≤ 1	complies	ppm	
Related substances	conform	complies		TLC
Loss on drying	≤ 0.1	0.1	%	
Sulphated ash	≤ 0.1	0.0	%	
Assay	99.0 – 100.5	100.1	%	
pH	3.0 – 3.5	3.3		

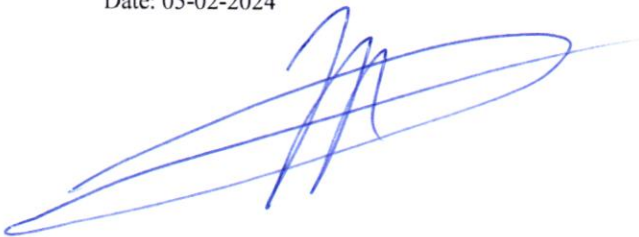
This certificate of analysis is conform the results of the manufacturer.

Conclusion: approved

Released by:

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

Date: 05-02-2024



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

Duchefa Biochemie B.V.