

CERTIFICATE OF ANALYSIS

Product : **PHENYLALANINE (L-)**
 Product number : P0716
 Batch number : 014772
 Date of analysis : 14-08-2019
 Date of expiry : 31-08-2024

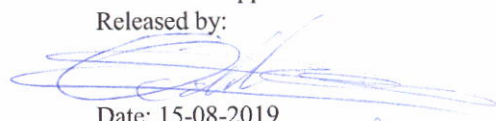
Packaging and storage : store in a well-closed container, protected from light

	SPECIFICATION	RESULT	UNITS	REMARKS
Appearance	white or almost white crystalline powder	complies		
Specific optical rotation	-33.2 – -35.2	-34.01	°	
IR-spectrum	conform	complies		
pH	5.4 – 6.0	5.57		
Heavy Metals	≤ 20	complies	ppm	as Pb
Lead	≤ 3	complies	ppm	
Arsenic	≤ 1	complies	ppm	
Mercury	≤ 0.1	complies	ppm	
Cadmium	≤ 1	complies	ppm	
Loss on drying	≤ 0.2	0.05	%	105 °C
Residue on ignition	≤ 0.1	0.03	%	
Assay	99.0 – 101.0	99.43	%	dried substance

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

Conclusion: approved

Released by:



Date: 15-08-2019

drs. Q. de Hoog, pharmacist
 Department of Quality Control Duchefa B.V.

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