

CERTIFICATE OF ANALYSIS

Product : **L-ARGININE**
 Product number : A0704
 Batch number : 011892
 Date of manufacturing : 06-06-2015
 Date of analysis : 20-08-2015
 Date of expiry : 30-06-2020

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

	SPECIFICATION	RESULT	UNITS	REMARKS
Appearance	white or almost white crystalline powder or colourless crystals	complies		
Identification	conform	complies		
Solubility	soluble in water	complies		
State of solution	≥ 98.0	complies		
State of solution	clear & colorless	complies		
Specific optical rotation	+26.9 – +27.9	+27.3	°	8% in HCL, dried substance
Related substances	conform	complies	%	TLC
Chloride	≤ 0.020	< 0.020	%	
Sulfate	≤ 0.020	< 0.020	%	
Ammonium	≤ 0.02	< 0.02	%	
Iron	≤ 10	< 10	ppm	
Arsenic	≤ 1	< 1	ppm	
pH	10.5 – 12.0	11.3		
Heavy metals	≤ 10	< 10	ppm	
Loss on drying	≤ 0.30	0.09	%	105 °C
Sulphated ash	≤ 0.10	0.02	%	
Assay	98.5 – 101.0	99.5	%	dried substance

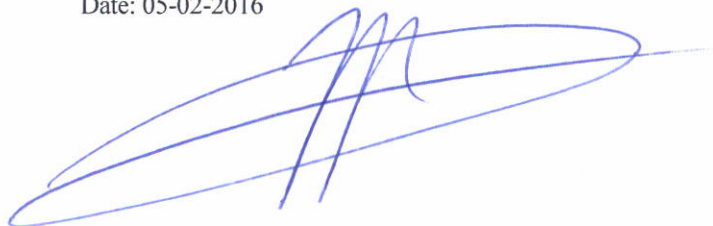
This certificate of analysis is conform the results of the manufacturer.

Conclusion: approved

Released by:

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

Date: 05-02-2016



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