

CERTIFICATE OF ANALYSIS

Product : **L-CYSTEINE HYDROCHLORIDE MONOHYDRATE**
 Product number : C0706
 Batch number : 011435
 Date of production : 28-03-2015
 Date of analysis : 01-06-2015
 Date of expiry : 31-03-2018

Packaging and storage : in a well-closed container

	SPECIFICATION	RESULT	UNITS	REMARKS
Appearance	white or almost white crystalline powder or colourless crystals	complies		
Solubility	soluble in water	complies		
Identification	conform	complies		
Specific rotation	+6.1 – +7.8	+6.3	°	
Appearance of solution	clear and colour ≤ ref. sol. BY ₆	complies		
Ammonium	≤ 200	< 200	ppm	
Sulphates	≤ 300	< 300	ppm	
Iron	≤ 20	< 20	ppm	
Heavy metals	≤ 10	< 10	ppm	
Loss on drying	8.0 – 12.0	10.4	%	
Sulphated ash	≤ 0.10	< 0.10	%	
Assay	98.5 – 101.0	99.7	%	

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

Conclusion: approved

Released by:

p/o

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

Date: 31-07-2015

Stefanus de Bree

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