

## **CERTIFICATE OF ANALYSIS**

Product **GLUTATHIONE REDUCED** 

Product number G1346 Batch number 013641 Date of production xx-12-2017 Date of expiry 31-12-2020

Packaging and storage store in a well-closed container, store at room temperature

Appearance	SPECIFICATION white crystalline powder	RESULT complies	UNITS	REMARKS
Identification	conform	complies		HPLC
Transmittance	≥ 98	complies	%	5% solution
Specific optical rotation	-17.515.5	-16.4	0	dried substance
рН	2.5 - 3.5	complies		5% water
Enzymatic activity	≥ 98.0	complies	%	
Heavy metals	≤ 10	complies	ppm	Pb
Iron	≤ 10	complies	ppm	
Arsenic	≤ 1	complies	ppm	
Ammonium	≤20	complies	ppm	
Sulfate	≤ 48	complies	ppm	
Impurities	≤ 2.0	complies	%	HPLC
Residue on ignition	≤ 0.10	0.02	%	
Loss on drying	$\leq 0.5$	0.11	%	
Assay	> 98	98,9	%	dried substance

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

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Conclusion: approved

Released by:

drs. M. van Wissen, pharmacist

Department of Quality Control Duchefa B.V.

Date: 27-03-2018

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

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