

CERTIFICATE OF ANALYSIS

Product TRIS Ultrapure (Tris(hydroxymethyl)aminomethane)

Product number T1501 Batch number 014990 Date of production 23-07-2018 Expiry date 31-07-2023

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

Appearance	SPECIFICATION white crystalline solid	RESULT complies	UNITS	REMARKS
Solubility	soluble in water	complies		25°C />700 g/l
Identification	conform	complies		IR-spectrum
Insoluble matter	≤ 0.005	< 0.005	%	_
Loss on drying	≤ 0.2	0.08	%	3 hrs 105 °C
Melting point	168.0 - 172.0	170.0	°C	
рН	10.5–11.5	10.78		
Residue on ignition	≤ 0.1	< 0.1	%	
Heavy metals	≤ 1	< 1	ppm	as Pb
Iron (Fe)	≤ 1	< 1	ppm	
Chloride (Cl)	≤ 100	< 5	ppm	
Assay	99.90-100.5	100.1	%	titration

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

Conclusion: approved

Released by:

drs. J. van der Eem, pharmacist

Department of Quality Control Duchefa B.V.

Date 08-11-2019

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