

CERTIFICATE OF ANALYSIS

Product : **TRIS Ultrapure (Tris(hydroxymethyl)aminomethane)**
 Product number : T1501
 Batch number : 017999
 Date of production : 22-04-2023
 Expiry date : 30-04-2028

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

	SPECIFICATION	RESULT	UNITS	REMARKS
Appearance	white crystalline solid	complies		
Solubility	Clear, colorless solution	complies		40% in H ₂ O
Identification	conform	complies		IR-spectrum
UV-absorbance	conform	complies		
- 280 nm	≤ 0.07	0.033		
- 400 nm	≤ 0.02	0.00		
Loss on drying	≤ 0.2	0.13	%	
Melting point	168.0 – 172.0	169.8 – 170.9	°C	
pH	10.0 – 11.5	10.9		5% in H ₂ O
Sulfate	≤ 10	complies	ppm	
Heavy metals	≤ 5	complies	ppm	
Iron (Fe)	≤ 1	complies	ppm	
Chloride (Cl)	≤ 3	complies	ppm	
Assay	≥ 99.5	99.8	%	titration

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

Conclusion: approved

Released by:

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

Date: 27-09-2023

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

Duchefa Biochemie B.V.