

## Certificate of Analysis

Product Name:

**Trometamol (Tris(hydroxymethyl)aminomethane) meets EP, USP testing specifications, ≥99.9% Suitable for Cell Culture Studies**

Product No.: PSR49120  
Lot No.: Sample COA  
Brand: PureSynth  
CAS No.: 77-86-1  
Molecular Formula:  $\text{NH}_2\text{C}(\text{CH}_2\text{OH})_3$   
Molecular Weight: 121.14 g/mol  
Date of Mfg.: NA  
Date of Exp.: NA

Test	Specification	Result
Appearance	White Crystalline Powder	White Crystalline Powder
Assay (by Titration with $\text{H}_2\text{SO}_4$ )	≥ 99.9 % (on anhydrous basis)	99.95 %
Solubility (200 g + 300 ml of $\text{H}_2\text{O}$ )	Clear Colourless Solution	Clear Colourless Solution
Water (by KF)	NMT 0.2 %	0.10 %
Loss on Drying (EP)	NMT 0.5 %	0.10 %
Loss on Drying (USP)	NMT 1.0 %	0.01 %
Identification A (USP)	Complies	Complies
Identification B (EP)	Complies	Complies
Identification B (USP)	Complies	Complies
Identification C (EP)	Complies	Complies
Identification C (USP)	Complies	Complies
Initial Melting Point	≥ 168 °C	170 °C
Final Melting Point	≤ 172 °C	171 °C
UV Absorbance at 290nm 40% (w/w)	NMT 0.05	0.01
UV Absorbance at 260nm (1M)	NMT 0.06	0.00
UV Absorbance at 280nm (1M)	NMT 0.06	0.00
Iron (Fe) (by ICP)	NMT 1.0 ppm	< 1.0 ppm
pH (5% in $\text{H}_2\text{O}$ )	10.0 - 11.5	10.9
Related Substances	Complies	Complies
Chloride (Cl)	NMT 100 ppm	< 100 ppm

The Certificate of Analysis (COA) is valid only for the lot specified and within the product's shelf life. Retesting is recommended after the expiry date or if storage conditions are compromised. We guarantee a proper quality within our General Conditions of Sales. The conditions are subject to change without prior notice. For queries on this COA, please contact our technical team at [technical@pure-synth.com](mailto:technical@pure-synth.com)

<b>Test</b>	<b>Specification</b>	<b>Result</b>
Residual Solvents	Complies	Complies
Residue on ignition (Ash)	NMT 0.10 %	0.05 %
DNase, Exonuclease Detection	Not Detected	Not Detected
RNase Detection	Not Detected	Not Detected
Protease Detection	Not Detected	Not Detected
Bacterial Endotoxin Level	≤ 1 EU/mg	0 EU/mg
Cell Culture Test	Complies	Complies

**Remarks:**

This is to certify that the mentioned batch has been analysed at the time of quality release and has been found to be in compliance with prescribed specifications

The current Specification sheet may be available at [www.pure-synth.com](http://www.pure-synth.com)

Inspect on receipt

**Storage Condition:**

Store dry at room temperature and keep the container tightly closed.

PureSynth Research Chemicals GmbH

*This is electronically-generated copy & is valid without a signature*

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