

**CERTIFICATE OF ANALYSIS**

PRODUCT NAME: Tris Ultrapure  
 CAS NO. 77-86-1  
 BATCH NO. 22/MFM/2930  
 EXPIRY DATE: May 2024

<b>Properties:</b>	<b>Specification:</b>	<b>Results:</b>
Appearance:	White crystalline solid	complies
Assay (by titration):	$\geq 99.90\%$ - $\leq 100.5$ wt%	99.94%
Solution (40% in water)	Clear	Complies
Absorbance (A280 40% in H <sub>2</sub> O)	$\leq 0.1$	0.084
Absorbance (A260 40% in H <sub>2</sub> O)	$\leq 0.1$	0.092
Infrared	IR Conforms	Conforms
Water content	$\leq 0.2$ wt %	0.18
pH (1%M aq. @ 25°C)	10.0 – 10.8	10.2
Insolubles	$\leq 0.01\%$	0.009
Residue on ignition	$\leq 0.05$	Complies
Sulfate	$\leq 10$ ppm	8 ppm
Heavy metals (as Pb)	$\leq 5$ ppm	Complies
Chloride (Cl)	$\leq 3$ ppm	1 ppm
Iron (Fe):	$\leq 5$ ppm	Complies
European Pharmacopoeia 6.0	Complies	Complies

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26<sup>th</sup> August 2022