

## CERTIFICATE OF ANALYSIS

**PRODUCT NAME:** Tris Ultrapure  
**CAS NO.** 77-86-1  
**BATCH NO.** 19/MFM/2434  
**EXPIRY DATE:** June 2022

For and on behalf of  
 FORMEDIUM Ltd, Unit 1B  
 Hunstanton Commercial Park  
 PE36 5JQ, England

  
 (Authorised Signature)

<u>Properties:</u>	<u>Specification:</u>	<u>Results:</u>
Appearance:	white crystalline solid	complies
Assay (by titration):	99.90 - 100.5 %	99.99%
Absorbance (40% aq, 290nm):	max. 0.10	0.041
Absorbance ( 1M aq, 260 nm):	max. 0.050	0.038
Absorbance ( 1M aq, 280 nm):	max. 0.060	0.035
Identity:	IR Conforms	complies
Insoluble Matter:	max. 0.005 wt%	<0.005%
Loss on Drying (3 hrs @ 105°C):	max. 0.2 wt%	0.08
Melting Point:	170.0 ± 2.0°C	168.3 - 171.8
pH (1M aq @ 25°C):	10.5 to 11.5	10.77
pKa (@ 20°C):	8.0 to 8.4	8.21
Residue on Ignition:	max. 0.1 wt%	0.030
Solubility (1M aq @ 20°C):	Clear, Colorless	pass
Heavy Metals (as Pb):	max. 1 ppm	<1ppm
Iron (Fe):	max. 1 ppm	<1ppm
Chloride(Cl):	max 5 ppm	< 5ppm
European Pharmacopoeia 6.0	complies	complies

\* This material is supplied for Research Use only.

Supplier: Formedium Ltd

Approved by:



Date: 26 Nov 2019