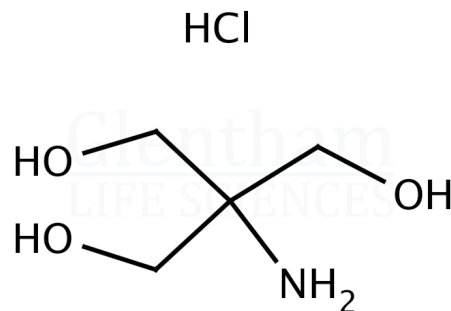


## Certificate of Analysis

Product Name	TRIS hydrochloride
Glentham Code	GB4431
CAS Number	1185-53-1
EINECS	214-684-5
MDL Number	MFCD00012590
PubChem SID	310281438
Batch Number	205DZO
Molecular Weight	157.60
Molecular Formula	$C_4H_{11}NO_3 \cdot HCl$
Storage Temp.	+20°C



Property	Specification	Batch 205DZO
Physical Description	White to off-white crystalline powder or crystals	White crystal
Identification (IR)	To conform to standard	Conforms
Solubility (20% in water)	Clear, colourless solution	Conforms
pH (0.5M in water, 25°C)	3.5 - 5.0	4.3
Melting Point	149.0 - 153.0 °C	152.9°C
UV Absorbance (1M in water)	≤ 0.060 (260nm)	0.004
	≤ 0.050 (280nm)	0.003
Heavy Metals (as Pb)	≤ 5ppm	Conforms
Assay (Titration)	99.0 - 101.0 % (dried basis)	100.0%

Specification Version	v1.1
Manufacture Date	2022-12-08
Re-Test Date	2031-01-25

Glentham Life Sciences confirm that the above referenced product conformed to the information displayed in this document on the quality release date. Please check [www.glentham.com](http://www.glentham.com) or contact us using the details above for the current version of this document.

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