



## CERTIFICATE OF ANALYSIS

Product Name: **Tris Hydrochloride**

Catalog Number: T042

Molecular Formula:  $C_4H_{11}NO_3 \cdot HCl$

Lot Number: 10221610

Formula Weight: 157.60

CAS Number: 1185-53-1

Storage: 15 to 30°C

Retest Date: 30-JUN-2021

<u>Test</u>	<u>Specifications</u>	<u>Results</u>
Appearance	White Crystalline Powder	PASS
Identification (IR)	Passes Test	PASS
Assay	≥ 99.0 %	100.2 %
Absorbance (1 M, H <sub>2</sub> O)		
260 nm	≤ 0.02	0.005
280 nm	≤ 0.02	0.004
Loss on Drying	≤ 0.4 %	0.37 %
Melting Point	150 to 153°C	153°C
Solubility (1 M, H <sub>2</sub> O)	Clear, Colorless Solution	PASS
pH (1 M, H <sub>2</sub> O)	3.7 to 4.7	4.06
pKa (20°C)	8.0 to 8.4	8.1
Residue on Ignition	≤ 0.1 %	< 0.1 %
Heavy Metals (as Pb)	≤ 5ppm	< 5ppm
Iron (Fe)	≤ 1ppm	< 1ppm

**This product meets or exceeds the quality standards established by Caisson Laboratories, Inc.**

*This product is intended for Laboratory Use Only*

Prepared by:

Reviewed by:

Kylie Loftus

05/18/2018

Quality Control