

Tris, Free Base

Certificate of Analysis

Cat. No. : PT-CHTS-1KG

Lot No. : 20200301

Expiration Date: 2022.02.28

Grade: Biotechnology

Analysis:

Item	Specification	Results
Appearance	White crystalline powder	Conforms
Assay %	99.5-101	100.2
Melting point, °C	168.0-171.0	169.3-170.5
Solubility (40% aq.)	Clear, colorless	Conforms
Heavy metals, ppm	≤5	Conforms
Water content, %	≤0.2	0.13
pH value (5% aq.)	10.0-11.5	10.7
Iron ion, ppm	≤1	Conforms
Sulfate, ppm	≤10	Conforms
Chloride, ppm	≤3	Conforms
Ultraviolet absorbance/280nm (40% aq.)	≤0.07	0.028
Ultraviolet absorbance/400nm (40% aq.)	≤0.02	0.001
Infrared spectrum	Conforms to reference	Conforms
Conclusion	This results conforms with enterprise standards	

Approved by: Danny Hsu

Title: QC SUPERVISOR

Date: 2020.07.27

For Research Using Only

Manufactured for and distributed by Protech Technology Enterprise Co., Ltd.

TEL: +886-2-2655-7677 / FAX: +886-2-2655-7601 / Toll Free: 0800-231-530

E-MAIL: service@bio-protech.com.tw; tech@bio-protech.com.tw

WEB: <http://www.bio-protech.com.tw>