

## Gojira Fine Chemicals, LLC

Quality Products & Services Meeting Customer Needs
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## **Certificate of Analysis**

## Tris Base USP

Catalog Number:TR1001Lot Number:0426801CAS Number:77-86-1Molecular Formula: $C_4H_{11}NO_3$ Molecular Weight:121.14

Storage:  $15^{\circ}\text{C} - 30^{\circ}\text{C}$ 

**Date of Manufacture:** February 27, 2018 **Retest Date:** May 3, 2020

Test	Specification	Result
Appearance	White crystalline powder	Conforms
Assay (on dried basis)	99.0 – 101.0%	100.2%
Identification		
A (FTIR)	To match spectra	Conforms
B Color Reaction	To pass test	Conforms
C Color Reaction	To pass test	Conforms
Melting Point	168°C to 172°C	171.6°C – 171.9°C
Moisture (LOD)	≤ 1.0%	< 0.3%
pH (5% in H <sub>2</sub> O)	10.0 to 11.5	10.57
Residue on Ignition	≤ 0.1%	0.00%
Heavy metals (as Pb)	≤ 10ppm	< 1ppm

Date: June 22, 2018

Approved by:

John Grubb, PhD

Gojira Fine Chemicals, LLC

Quality Manager

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