

Certificate of Analysis

Date of Testing: 2022-07-14 14:50:47
 Date of Next Testing: 2026-07-13 14:50:47
 Product Name: **BIS-TRIS**
 CAS Number: 6976-37-0
 Specifications & Purity: for cell culture,for insect cell culture,≥98%(HPLC)
 Lot #: G2207103
 SKU #: **B113072**
Analysis: **098236**
 Storage Temperature: Argon charged

Parameter	Limit Values	Result
Purity(HPLC)	98-100 (%)	99.79600%
Heavy metal (as Pb)	0-5 (ppm)	0.22 ppm
UV Absorbance (1 cm/0.1 M in H ₂ O, 280nm)	0-0.04	0.03
Total aerobic microbial count (TAMC)	0-100 (cfu/g)	55.00 cfu/g
Water by Karl Fischer	0-1 (%)	0.43 %
UV Absorbance (1 cm/0.1 M in H ₂ O, 340nm)	0-0.02	0.00
Melting point	102-106 (°C)	105.23000 °C
Purity (Titration by H ₂ SO ₄) (anhydrous)	98-100 (%)	99.91 %
Endotoxin Assay	0-1 (EU/mg)	0.23 EU/mg
Appearance (B113072)	White crystal powder	White crystal powder
Cell Culture Test	pass	Pass
DNase, Exonuclease Detection	None Detected	none detected
Endonuclease Detection	None Detected	none detected
Infrared spectrum	Conforms to Structure	Conforms to Structure
Insect cell culture test	pass	Pass
proteases	none detected	none detected
RNases	none detected	none detected
Solubility in H ₂ O , Colorless to Very Faint Yellow, Clear,at 500 mg/ml	pass	Pass



ALADDIN SCIENTIFIC CORPORATION

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A handwritten signature in black ink that reads "John Su". The signature is written in a cursive, flowing style.

John Su
QA & QC Manager