

Certificate of Analysis

Date of Testing: 2023-10-20 16:47:32
 Date of Next Testing: 2027-10-19 16:47:32
 Product Name: **BIS-TRIS**
 CAS Number: 6976-37-0
 Specifications & Purity: for cell culture,for insect cell culture,≥98%(HPLC)
 Lot #: J2318762
 SKU #: **B113072**
Analysis: **289062**
 Storage Temperature: Argon charged

Parameter	Limit Values	Result
Purity(HPLC)	98-100 (%)	99.76000 %
Melting point	102-106 (°C)	105.60000 °C
Heavy metal (as Pb)	0-5 (ppm)	0.00 ppm
Purity (Titration by H2SO4) (anhydrous)	98-100 (%)	99.76 %
UV Absorbance (1 cm/0.1 M in H2O, 280nm)	0-0.04	0.02
Total aerobic microbial count (TAMC)	0-100 (cfu/g)	0.00 cfu/g
Endotoxin Assay	0-1 (EU/mg)	0.05 EU/mg
Water by Karl Fischer	0-1 (%)	0.02 %
UV Absorbance (1 cm/0.1 M in H2O, 340nm)	0-0.02	0.01
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 H2O , Colorless to Very Faint Yellow, Clear,at 500 mg/ml	pass	Pass



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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