

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2023-01-11 15:20:42
 Date of Next Testing: 2025-01-10 15:20:42
 Product Name: **Epinephrine Bitartrate**
 CAS Number: 51-42-3
 Specifications & Purity: Moligand™, ≥98%
 Lot #: A2306478
 SKU #: **E129809**
 Version: **2**
 Analysis #: **162537**
 Storage Temperature: Store at 2-8°C, Protected from light, Argon charged

Parameter	Limit Values	Result
Purity(Nonaqueous Titration)	98-102 (%)	98.96000 %
Specific Rotation [α] ₂₀ /D(c=2 in H ₂ O)	-18--15 (°)	-15.46000 °
Purity(HPLC)	98-100 (%)	99.51300 %
Nitrogen by Elemental Analysis	3.9-4.5 (%)	4.31900 %
Carbon by Elemental Analysis	45.9-47.8 (%)	46.76200 %
Appearance (E129809)	white to white with a light yellow cast powder	white to white with a light yellow cast powder
Solubility in H ₂ O , clear colorless to faint yellow solution at 50mg/ml	pass	Pass
NMR Spectrum 1H	Conforms to Structure	Conforms to Structure



John Su
QA & QC Manager