

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2023-01-11 15:25:32

Date of Next Testing: 2025-01-10 15:25:32

Product Name: **Epinephrine Bitartrate**

CAS Number: 51-42-3

Specifications & Purity: Moligand™, ≥98%

Lot #: A2306487

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] <sub>20</sub> /D(c=2 in H <sub>2</sub> 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<br>cast powder | white to white with a light yellow<br>cast powder |
| Solubility in H <sub>2</sub> O , clear colorless to faint yellow<br>solution at 50mg/m | pass                                              | Pass                                              |
| NMR Spectrum 1H                                                                        | Conforms to Structure                             | Conforms to Structure                             |



John Su  
QA & QC Manager