

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2023-07-08 11:32:49  
Date of Next Testing: 2027-07-07 11:32:49  
Product Name: **Adenosine**  
CAS Number: 58-61-7  
Specifications & Purity: Ultra pure , 99.5%  
Lot #: F2327105  
SKU #: **A108808**  
**Analysis: 241590**  
Storage Temperature: Store at 2-8°C

| Parameter  | Limit Values             | Result                   |
|--|--------------------------|--------------------------|
| Heavy metal (as Pb)  | 0-10 (ppm)               | 0.00 ppm                 |
| Purity(HPLC)   | 99.5-100 (%)             | 99.89900 %               |
| Ratio of Absorbances(E280/E260)                                      | 0.19-0.24                | 0.21                     |
| Nitrogen by Elemental Analysis                                       | 25.69-26.73 (%)          | 26.07 %                  |
| Ratio of Absorbances(E250/E260)                                      | 0.81-0.87                | 0.84                     |
| Lambda max.(0.1mol/L HCl)  | 256-261 (nm)             | 257.00 nm                |
| Specific Rotation $[\alpha]_{20/D}(c=2 \text{ in } 5\% \text{NaOH})$ | -72--69 (°)              | -69.36 °                 |
| Sulfate Ash  | 0-0.1 (%)                | 0.00 %                   |
| Loss on drying   | 0-0.5 (%)                | 0.04 %                   |
| Melting point  | 233-238 (°C)             | 237.86000 °C             |
| Appearance (A108808)   | White Powder or Crystals | White Powder or Crystals |
| Infrared spectrum  | Conforms to Structure    | Conforms to Structure    |



John Su  
QA & QC Manager