

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2025-09-10 18:44:19

Date of Next Testing: 2027-09-10 18:44:19

Product Name: **D-(+)-Gluconic acid  $\delta$ -lactone**

CAS Number: 90-80-2

Specifications & Purity: Moligand™, ≥99%

Lot #: I2509405

SKU #: **G106879**

Version: **3**

Analysis #: **561985**

Storage Temperature: Room temperature, Argon charged, Desiccated, Cool

| Parameter                                                                        | Limit Values                                                             | Result                                                                   |
|----------------------------------------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------|
| Heavy metal (as Pb)                                                              | 0-20 (ppm)                                                               | 0.00000 ppm                                                              |
| Pb measure                                                                       | 0-10 (ppm)                                                               | 0.00000 ppm                                                              |
| Purity(HPLC)                                                                     | 99-100 (%)                                                               | 99.75500 %                                                               |
| Melting point                                                                    | 155-163 (°C)                                                             | 162.97000 °C                                                             |
| Reducing Substances                                                              | 0-0.5 (%)                                                                | 0.50000 %                                                                |
| Specific Rotation [α] <sub>20</sub> /D(c=10 in H <sub>2</sub> O)                 | 60-67 (°)                                                                | 60.66900 °                                                               |
| Appearance (G106879)                                                             | colorless or White to Off-White Powder or Crystals or Crystalline powder | colorless or White to Off-White Powder or Crystals or Crystalline powder |
| Solubility in H <sub>2</sub> O, Colorless to Very Faint Yellow, Clear, 100 mg/mL | pass                                                                     | Pass                                                                     |
| Proton NMR spectrum                                                              | Conforms to structure                                                    | Conforms to Structure                                                    |



John Su  
QA & QC Manager