

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2024-09-20 13:03:00
 Date of Next Testing: 2026-09-20 13:03:00
 Product Name: **D-(+)-Gluconic acid δ -lactone**
 CAS Number: 90-80-2
 Specifications & Purity: Moligand™, ≥99%
 Lot #: I2413507
 SKU #: **G106879**
 Version: **3**
 Analysis #: **404261**
 Storage Temperature: Room temperature, Argon charged, Desiccated, Cool

Parameter	Limit Values	Result
Reducing Substances	0-0.5 (%)	0.23000 %
Heavy metal (as Pb)	0-20 (ppm)	15.00000 ppm
Pb measure	0-10 (ppm)	0.00000 ppm
Purity(HPLC)	99-100 (%)	99.50000 %
Specific Rotation $[\alpha]_{20/D}(c=10 \text{ in H}_2\text{O})$	60-67 (°)	63.40000 °
Melting point	155-163 (°C)	157.60000 °C
Solubility in H ₂ O , Colorless to Very Faint Yellow , Clear, 100 mg/mL	pass	Pass
Proton NMR spectrum	Conforms to structure	Conforms to Structure
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



John Su
QA & QC Manager