

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2023-08-16 14:22:47
 Date of Next Testing: 2025-08-15 14:22:47
 Product Name: **D-(+)-Gluconic acid δ -lactone**
 CAS Number: 90-80-2
 Specifications & Purity: 99%
 Lot #: K2111163
 SKU #: **G106879**
Analysis: **264786**
 Storage Temperature: Argon charged

Parameter	Limit Values	Result
Heavy metal (as Pb)	0-20 (ppm)	5.50 ppm
Melting point	151-158 (°C)	152.90000 °C
Reducing Substances	0-0.5 (%)	0.26 %
Pb measure	0-10 (ppm)	2.20 ppm
Purity(HPLC)	99-100 (%)	99.61400 %
Specific Rotation [a] ₂₀ /D(c=10 in H ₂ O)	60-67 (°)	62.40 °
Ash	0-0.1 (%)	0.03 %
Purity(Titration by HCl)	98.5-101.5 (%)	99.52 %
Appearance (G106879)	White to Off-White Powder or Crystals	White to Off-White Powder or Crystals
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



John Su
QA & QC Manager