

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2022-02-23 16:28:01
 Date of Next Testing: 2024-02-23 16:28:01
 Product Name: **D- α -Hydroxyglutaric acid disodium salt**
 CAS Number: 103404-90-6
 Specifications & Purity: $\geq 95\%$
 Lot #: F1804010
 SKU #: **S137414**
Analysis: **077243**
 Storage Temperature: Store at -20°C , Argon charged

Parameter	Limit Values	Result
Specific Rotation $[\alpha]_{20}^D(c=1 \text{ in H}_2\text{O})(\text{anhydrous})$	8-9 ($^{\circ}$)	8.30 $^{\circ}$
Purity(Titration by HClO_4)(anhydrous)	94.5-105.5 (%)	99.64%
Water by Karl Fischer	0-4 (%)	1.18%
Purity(HPLC)	95-100 (%)	97.96000%
Appearance (S137414)	White to Off-White Powder	White to Off-White Powder
Proton NMR spectrum	Conforms to Structure	Conforms to Structure
Solubility in H_2O , Colorless to Faint Yellow Clear ,50 mg/mL, H_2O	pass	Pass



John Su
QA & QC Manager