

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing:	2024-09-19 14:09:44
Date of Next Testing:	2026-09-19 14:09:44
Product Name:	<b>D-<math>\alpha</math>-Hydroxyglutaric acid disodium salt</b>
CAS Number:	103404-90-6
Specifications & Purity:	$\geq 95\%$
Lot #:	K2223526
SKU #	<b>S137414</b>
Version	<b>0</b>
Analysis #:	<b>412706</b>
Storage Temperature:	Store at -20°C, Argon charged

Parameter	Limit Values	Result
Specific Rotation [a] <sub>20</sub> /D(c=1 in H <sub>2</sub> O)(anhydrous)	8-9 (°)	8.91°
Purity(Titration by HClO <sub>4</sub> )(anhydrous)	94.5-105.5 (%)	99.28 %
Water by Karl Fischer	0-4 (%)	1.28 %
Purity(HPLC)	95-100 (%)	98.46300 %
Appearance (S137414)	White to Off-White to yellow Powder	white to off-white to yellow powder
Proton NMR spectrum	Conforms to Structure	Conforms to Structure
Solubility in H <sub>2</sub> O , Colorless to Faint Yellow Clear ,50 mg/mL, H <sub>2</sub> O	pass	Pass



John Su  
QA & QC Manager