

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2024-05-14 15:30:47  
 Date of Next Testing: 2026-05-14 15:30:47  
 Product Name: **D- $\alpha$ -Hydroxyglutaric acid disodium salt**  
 CAS Number: 103404-90-6  
 Specifications & Purity:  $\geq 95\%$   
 Lot #: H2201091  
 SKU #: **S137414**  
**Analysis:** **357805**  
 Storage Temperature: Store at  $-20^{\circ}\text{C}$ , Argon charged

Parameter	Limit Values	Result
Specific Rotation $[\alpha]_{20/D}(c=1 \text{ in H}_2\text{O})(\text{anhydrous})$	8-9 ( $^{\circ}$ )	8.39 $^{\circ}$
Purity(Titration by $\text{HClO}_4$ )(anhydrous)	94.5-105.5 (%)	98.40%
Water by Karl Fischer	0-4 (%)	2.05%
Purity(HPLC)	95-100 (%)	98.36000%
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 $\text{H}_2\text{O}$ , Colorless to Faint Yellow Clear ,50 mg/mL, $\text{H}_2\text{O}$	pass	Pass



John Su  
QA & QC Manager