

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2023-04-17 14:50:36  
Date of Next Testing: 2026-04-16 14:50:36  
Product Name: **GRL 0617**  
CAS Number: 1093070-16-6  
Specifications & Purity:  $\geq 98\%$ (HPLC)  
Lot #: D23061598  
SKU #: **G286912**  
**Analysis: 186219**  
Storage Temperature: Store at  $-20^{\circ}\text{C}$

Parameter	Limit Values	Result
Purity(HPLC area)	98-100 (%)	98.93%
Specific rotation $[\alpha]/D(c = 0.5 \text{ in chloroform-d})$	$-82 \sim -72$ ( $^{\circ}$ )	$-81.94600^{\circ}$
NMR Spectrum 1H	Conforms to Structure	Conforms to Structure
Appearance(G286912)	white to beige powder	white to beige powder



John Su  
QA & QC Manager