

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2022-02-23 16:56:08  
Date of Next Testing: 2026-02-22 16:56:08  
Product Name: **N-Fmoc-L-glutamic acid 5-methyl ester**  
CAS Number: 145038-50-2  
Specifications & Purity:  $\geq 97.0\%$   
Lot #: D1823054  
SKU #: **F140154**  
Analysis: **077263**

Parameter	Limit Values	Result
Specific Rotation $[\alpha]_{20}^D(c=2 \text{ in MeOH})$	-15--9 ( $^{\circ}$ )	-12.03 $^{\circ}$
Purity	97-100 (%)	98.72 %
Appearance (F140154)	white powder or solid	white powder or solid
Infrared spectrum	Conforms to Structure	Conforms to Structure
Proton NMR spectrum	Conforms to Structure	Conforms to Structure



John Su  
QA & QC Manager