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Certificate of Analysis

Product Name: Fmoc-Val-OH Lot No: 220308-36001
CAS No: 68858-20-8 Store at: ≤25°C
Molecular Formula: C₂₀H₂₁NO₄ Molecular Weight: 339.38
Manufacturing Date: 08/03/22

Tests	Specifications	Result
Appearance	White powder	Complies
Purity (HPLC)	≥99%	99.62%
Purity (TLC)	≥98%	>98%
Optical Purity	≤0.3% D-enantiomer	Not detectable
Melting Point	140-155°C	145.5-146.2°C
Specific Rotation [α] ²⁰ _D	-16.5°±2°(C=1 in DMF)	-16.6°(C=1 in DMF)
Clarity of solution	0.3 gram in 2mL DMF clear solution	Complies
Water Content(K.F.)	≤1.0%	0.09%
Loss on drying	≤2.0%(60°C, 2h)	0.48%
IR Spectrum	In accordance with the structure	Complies
Mass Spectrum	In accordance with the structure	Complies
NMR Spectrum	In accordance with the structure	Complies

Signed:

Date: 04 April 2023

(Quality Assurance)

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<http://altabioscience.com/terms-and-conditions>