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Certificate of Analysis

Product Name:	Fmoc-Tyr(tBu)-OH	Lot No:	221209-36901
CAS No:	71989-38-3	Store at:	≤25°C
Molecular Formula:	C ₂₈ H ₂₉ NO ₅	Molecular Weight:	459.53
Manufacturing Date:	09/12/22		

Tests	Specifications	Result
Appearance	White powder	Complies
Purity (HPLC)	≥99%	99.96%
Purity (TLC)	≥98%	>98%
Optical Purity	≤0.3% D-enantiomer	Not detectable
Melting Point	145-160°C	151.3-154.3°C
Specific Rotation [α] _D ²⁰	-28.5°±2.5°(C=1 in DMF)	-30.5°(C=1 in DMF)
Clarity of solution	0.3 gram in 2mL DMF clear solution	Complies
Water Content(K.F.)	≤1.0%	0.14%
Loss on drying	≤1.0%(70°C, 2h)	0.50%
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>