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Certificate of Analysis

Product Name:	Fmoc-Thr(tBu)-OH	Lot No:	221008-36202-1
CAS No:	71989-35-0	Store at:	≤25°C
Molecular Formula:	C ₂₃ H ₂₇ NO ₅	Molecular Weight:	397.46
Manufacturing Date:	8/10/22		

Tests	Specifications	Result
Appearance	White powder	Complies
Purity (HPLC)	≥99%	99.82%
Purity (TLC)	≥98%	>98%
Optical Purity	≤0.3% D-enantiomer	0.04%
Melting Point	125-135°C	132.3-133.9°C
Specific Rotation [α] ²⁰ _D	+16°±2°(C=1 in EtOAc)	+16.1°(C=1 in EtOAc)
Clarity of solution	0.3 gram in 2mL DMF clear solution	Complies
Water Content(K.F.)	≤1.0%	0.14%
Loss on drying	≤2.0%(60°C, 2h)	0.37%
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>