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Certificate of Analysis

Product Name: Fmoc-Arg(Pbf)-OH Lot No: 221115-36401
CAS No: 154445-77-9 Store at: $\leq 25^{\circ}\text{C}$
Molecular Formula: $\text{C}_{34}\text{H}_{40}\text{N}_2\text{O}_7$ Molecular Weight: 648.77
Manufacturing Date: 15/11/22

Tests	Specifications	Result
Appearance	White powder	Complies
Purity (HPLC)	$\geq 99\%$	99.04%
Purity (TLC)	$\geq 98\%$	>98%
Optical Purity	$\leq 0.3\%$ D-enantiomer	0.06%
Specific Rotation $[\alpha]_{\text{D}}^{20}$	$-4.5^{\circ} \pm 1.5^{\circ}$ (C=4 in DMF)	-5.4° (C=4 in DMF)
Clarity of solution	0.3 gram in 2mL DMF clear solution	Complies
Water Content(K.F.)	$\leq 2.0\%$	0.20%
Loss on drying	$\leq 2.0\%$ (50°C, 2h)	0.19%
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>