

SPECIFICATION

Tests	Specifications
Appearance	White to off white powder
Purity(UPLC) (%)	≥98.5
Impurity(%)	Fmoc-β-Ala-OH≤0.2
	Fmoc-Trp-OH≤0.5
	Fmoc-β-Ala-Trp(Boc)-OH≤0.1
	Fmoc-Trp(Boc)-Trp(Boc)-OH≤0.1
	each single unspecified≤0.2
Optical Purity(%)	≤0.1 D-enantiomer
Specific Rotation $[\alpha]_D^{20}$	-20.0°±4.0°(C=1, DMF)
Clarity of solution	5 mmol in 10ml DMF clear solution
Water Content(K.F.) (%)	≤2.0
Residual Solvent (GC):	
Ethyl Acetate	< 15500 ppm
Assay (Titration) (%)	90.0 – 105.0
Identification (MS)	In accordance with the standard
Identification (NMR)	In accordance with the standard

Note: All of the above specifications are based on CSBio in-house MOA.

CSBio reserves the right to revise the above information without any written consent to any users on any intent use of this information.