



## SPECIFICATION

Tests	Specifications
Appearance	White powder
Clarity of solution	5 mmol in 10ml DMF clear solution
Identification (MS) (mu)	Monoisotopic mass 610.7 ± 0.5
Identification (UPLC)	Coelutes with reference standard when the sample and standard solutions are coinjected (1:1, v/v)
Purity(UPLC) (%)	≥99.0
Impurities (UPLC) (%)	Fmoc-β-Ala-OH≤0.3
	Fmoc-β-Ala-Gln(Trt)-OH≤0.3
	Fmoc-Gln(Trt)-Gln(Trt)-OH≤0.3
	Fmoc-Gln-OH≤0.3
	each single unspecified≤0.5
Impurity (TLC) (%)	H-Gln(Trt)-OH≤0.2
Specific Rotation $[\alpha]_D^{20}$	-14.0° ± 2.0° (C = 1 in DMF)
Chiral Impurity (HPLC) (%)	≤ 0.2
Water Content (K.F.) (%)	≤ 1.0
Assay (Titration) (%)	90.0-105.0
Ethyl Acetate (%)	≤0.1
Acetate (IC) (%)	≤ 0.2
Identification (MS)	In accordance with the standard
Identification (NMR)	In accordance with the standard