



SPECIFICATION

Tests	Specifications
Appearance	White powder
Clarity of solution	5 mmol in 10ml DMF clear solution
Identification (MS) (mu)	Monoisotopic mass 383.4 ± 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-Ser(tBu)-OH ≤ 0.3
	Fmoc-Ser(tBu)-Ser(tBu)-OH ≤ 0.3
	Fmoc-Ser-OH ≤ 0.3
	each single unspecified ≤ 0.5
Impurity (TLC) (%)	H-Ser(tBu)-OH ≤ 0.2
Specific Rotation $[\alpha]_D^{20}$	$+26.0^\circ \pm 2.5^\circ$ (C = 1 in EtOAc)
Chiral Impurity (HPLC) (%)	≤ 0.2
Water Content (K.F.) (%)	≤ 1.0
Assay (Titration) (%)	90.0-105.0
Ethyl Acetate (%)	≤ 0.5
Acetate (IC) (%)	≤ 0.2
Identification (MS)	In accordance with the standard
Identification (NMR)	In accordance with the standard

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