

Analytical Data Sheet

Lot number **1066518**
not for drug use

Catalog number **B-1240.0005**
Product number **4009509.0005**
Product **Fmoc- D- Ser(tBu) - OH**
Molecular formula $C_{22}H_{25}NO_5$
Relative molecular mass 383.44

Tests	Results
Appearance	white powder
Appearance of solution	clear, colorless solution (50 mg/mL in methanol) clear, colorless solution (0.5 mmol/mL in DMF)
Identification (TLC)	complies with authentic material
Melting point	131 °C
Specific optical rotation	$[\alpha]_D^{24} = -26.1^\circ$ (1% in ethyl acetate)
Purity (HPLC)	99.8% (TFA)
Related impurities (HPLC)	0.1% Fmoc- β -Ala-OH < 0.1% Fmoc- β -Ala-D-Ser(tBu)-OH < 0.1% Fmoc-D-Ser(tBu)-D-Ser(tBu)-OH 0.1% Fmoc-D-Ser-OH
Purity (TLC)	> 99%
Related impurities (TLC)	< 0.1% H-D-Ser(tBu)-OH
TLC conditions	toluene/dioxane/acetic acid 95/25/4 chloroform/methanol/toluene/H ₂ O 8/8/8/1 chloroform/methanol/acetic acid 90/8/2 plate: silicagel 60 F ₂₅₄ detected by: UV, ninhydrin, TMB
Enantiomer content (GC)	< 0.1% L-enantiomer
Assay (titration)	98.5% (TBAH)
Water content (KF volumetric)	0.2%
Acetic acid content (IC)	0.0030%

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