

Analytical Data Sheet

Lot number **1067913**
not for drug use

Catalog number **B-1075.0001**
Product number **4008064.0001**
Product **Fmoc- Asp(OtBu) - OSu**
Molecular formula $C_{27}H_{28}N_2O_8$
Relative molecular mass 508.53

Tests	Results
Appearance	white powder
Appearance of solution	clear, colorless solution (50 mg/mL in acetone) clear, colorless solution (0.5 mmol/mL in DMF)
Identification (TLC)	complies with authentic material
Melting point	133 °C
Specific optical rotation	$[\alpha]_D^{24} = -31.9^\circ$ (1% in DMF)
Purity (HPLC)	98.6% (TFA)
Related impurities (HPLC)	1.1% Fmoc-Asp(OtBu)-OH
Purity (TLC)	the decomposition profile equals he one of the authentic material on the same TLC plate
Related impurities (TLC)	< 0.5% dicyclohexyl urea
TLC conditions	toluene/dioxane/acetic acid 95/25/4 chloroform/ethylacetate/acetic acid 50/50/2 chloroform/methanol/toluene/H ₂ O 8/8/8/1 plate: silicagel 60 F ₂₅₄ detected by: UV, ninhydrin, TMB methanol 80% plate: RP-8 detected by: ammoniummolybdate
Enantiomer content (chiral chromatography)	< 0.1% D-enantiomer
Assay (elemental analysis)	100.3% (Cth 63.77%, Cfd 63.97%)
Water content (KF volumetric)	0.2%