

Analytical Data Sheet

Lot number **1000023197**
not for drug use

Catalog number **B-1070.0005**
Product number **4006402.0005**
Product **Fmoc- D- Asp(OtBu) - OH**
Molecular formula $C_{23}H_{25}NO_6$
Relative molecular mass 411.46

Tests	Results
Appearance	white powder
Appearance of solution	clear, colorless solution (50 mg/mL in DMF) essentially clear solution (0.5 mmol/mL in DMF)
Identification (TLC)	complies with authentic material
Melting point	149.6 °C
Specific optical rotation	$[\alpha]_D^{24} = +24.1^\circ$ (1 % in DMF)
Purity (HPLC)	99.6% (TFA)
Related impurities (HPLC)	< 0.1% Fmoc-β-Ala-OH < 0.1% Fmoc-β-Ala-D-Asp(OtBu)-OH 0.1% Fmoc-D-Asp-OH < 0.1% Fmoc-D-Asp(OtBu)-D-Asp(OtBu)-OH
Purity (TLC)	> 99%
Related impurities (TLC)	< 0.1% H-D-Asp(OtBu)-OH
TLC conditions	chloroform/methanol/acetic acid 85/10/5 chloroform/methanol/toluene/H ₂ O 8/8/8/1 toluene/dioxane/acetic acid 95/25/4 plate : silicagel 60 F ₂₅₄ detected by: UV, ninhydrin, TMB
Other amino acids (GC)	< 0.3%
Enantiomer content (chiral chromatography)	0.2% L-enantiomer
Assay (titration)	100.4% (TBAH)
Water content (KF volumetric)	0.1%
Acetic acid content (IC)	0.0050%

Latest update: October 11, 2019

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