

Analytical Data Sheet

Lot number **1000016822**
not for drug use

Catalog number **B-1735.0001**
Product number **4012046.0001**
Product **Fmoc- Asp- OtBu**
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 dioxane) clear, colorless solution (0.5 mmol/mL in DMF)
Identification (TLC)	complies with authentic material
Specific optical rotation	$[\alpha]_D^{24} = -22.7^\circ$ (1% in DMF)
Purity (HPLC)	99.3% (TFA)
Related impurities (HPLC)	< 0.1% Fmoc-Asp-OH 0.3% Fmoc- β -Ala-OH
Purity (TLC)	> 99%
Related impurities (TLC)	< 0.2% H-Asp-OtBu
TLC conditions	toluene/dioxane/acetic acid 95/25/4 chloroform/methanol/toluene/H ₂ O 8/8/8/1 plate: silicagel 60 F ₂₅₄ detected by: UV, ninhydrin, TMB
Enantiomer content (chiral chromatography)	0.3% D-enantiomer
Assay (titration)	94.9% (TBAH)
Water content (KF volumetric)	0.7%
Acetic acid content (IC)	0.007%

Latest update: May 28, 2019

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