

Analytical Data Sheet

Lot number **1067914**
not for drug use

Catalog number **B-1065.0100**
Product number **4093142.0100**
Product **Fmoc- 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 (0.5 mmol/mL in DMF)
Identification (ESI-MS)	m = 411.4u (average mass)
Identification (TLC)	complies with authentic material
Purity (HPLC)	99.9% (TFA)
Related impurities (HPLC)	< 0.1% Fmoc-Asp-OH not det. Fmoc-β-Ala-OH not det. Fmoc-β-Ala-Asp(OtBu)-OH < 0.1% Fmoc-Asp(OtBu)-Asp(OtBu)-OH < 0.1% any single unspecified
Related impurities (TLC)	< 0.1% H-Asp(OtBu)-OH < 0.2% any single unspecified
TLC conditions	chloroform/methanol/toluene/H ₂ O 8/8/8/1 toluene/dioxane/acetic acid 95/25/4 chloroform/methanol/acetic acid 85/10/5 plate: silicagel 60 F ₂₅₄ detected by: UV, ninhydrin, TMB
Other amino acids (GC)	< 0.3%
Enantiomer content (chiral chromatography)	0.1% D-enantiomer
Assay (titration)	99.0% (TBAH)
Water content (KF volumetric)	0.1%
Acetic acid content (IC)	0.004%