

## Analytical Data Sheet

Lot number **1000007523**  
not for drug use

Catalog number **B-1065.0500**  
Product number **4093142.0500**  
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
Specific optical rotation	$[\alpha]_D^{24} = -23.6^\circ$ (1% in DMF)
Purity (HPLC)	99.88% (TFA)
Related impurities (HPLC)	not det. Fmoc- $\beta$ -Ala-OH 0.00% Fmoc- $\beta$ -Ala-Asp(OtBu)-OH 0.01% Fmoc-Asp-OH 0.02% Fmoc-Asp(OtBu)-Asp(OtBu)-OH $\leq 0.05\%$ each single unspecified  $\leq 0.04\%$ each single unspecified
Purity (TLC)	> 99%
Related impurities (TLC)	$\leq 0.05\%$ H-Asp(OtBu)-OH
TLC conditions	chloroform/methanol/toluene/H <sub>2</sub> O 8/8/8/1 toluene/dioxane/acetic acid 95/25/4 chloroform/methanol/acetic acid 85/10/5 plate: silicagel 60 F <sub>254</sub> detected by: UV, ninhydrin, TMB
Other amino acids (GC)	< 0.2% each
Enantiomer content (chiral chromatography)	0.11% D-enantiomer
Assay (titration)	99.2% (TBAH)
Water content (KF volumetric)	< 0.1%
Acetic acid content (IC)	26mg/kg

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Latest update: October 19, 2018

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