

## Analytical Data Sheet

Lot number **1068532**  
not for drug use

Catalog number **B-2245.0005**  
Product number **4018580.0005**  
Product **Fmoc- D- Glu- OtBu**  
Molecular formula  $C_{24}H_{27}NO_6$   
Relative molecular mass 425.48

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
Melting point	112 °C
Specific optical rotation	$[\alpha]_D^{24} = +22.5^\circ$ (1% in methanol)
Purity (HPLC)	99.8% (TFA)
Related impurities (HPLC)	< 0.1% Fmoc- $\beta$ -Ala-OH not det. Fmoc-D-Glu-OH < 0.1% Fmoc-D-Glu(D-Glu-OtBu)-OtBu
Purity (TLC)	> 99%
Related impurities (TLC)	< 0.1% H-D-Glu-OtBu
TLC conditions	chloroform/methanol/toluene/H <sub>2</sub> O 8/8/8/1 toluene/dioxane/acetic acid 95/25/4 chloroform/ethylacetate/acetic acid 50/50/2 plate : silicagel 60 F <sub>254</sub> detected by: UV, ninhydrin, IRH
Enantiomer content (chiral chromatography)	< 0.1% L-enantiomer
Assay (titration)	99.5% (TBAH)
Water content (KF volumetric)	0.1%
Acetic acid content (IC)	0.006%