

## Analytical Data Sheet

Lot number **1074228**  
not for drug use

Catalog number **B-1790.0025**  
Product number **4014949.0025**  
Product **Fmoc- Gln(Trt) - OH**  
Molecular formula  $C_{39}H_{34}N_2O_5$   
Relative molecular mass 610.71

Tests	Results
Appearance	white powder
Appearance of solution	essentially clear solution (0.5 mmol/mL in DMF)
Identification (TLC)	complies with authentic material
Specific optical rotation	$[\alpha]_D^{24} = -1.3^\circ$ (1% in methanol)
Purity (HPLC)	99.76% (TFA)
Related impurities (HPLC)	not det. Fmoc- $\beta$ -Ala-OH 0.01% Fmoc- $\beta$ -Ala-Gln(Trt)-OH not det. Fmoc-Gln-OH 0.03% Fmoc-Gln(Trt)-Gln(Trt)-OH $\leq 0.10\%$ each single unspecified
Purity (TLC)	> 99%
Related impurities (TLC)	< 0.05% H-Gln(Trt)-OH
TLC conditions	chloroform/methanol/acetic acid/H <sub>2</sub> O 45/13/1/2 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%
Enantiomer content (chiral chromatography)	not det. (< 0.007% LOD) D-enantiomer
Assay (titration)	95.5% (TBAH)
Water content (KF volumetric)	0.3%
Acetic acid content (IC)	42mg/kg