

Analytical Data Sheet

Lot number **1000010331**
not for drug use

Retest date N/A
 Catalog number **B-1790.0005**
 Product number **4014949.0005**
 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	clear solution (0.5 mmol/mL in DMF)
Identification (ESI-MS)	m = 610.2u(monoisotopic mass)
Identification (TLC)	complies with authentic material
Specific optical rotation	$[\alpha]_D^{24} = -1.6^\circ$ (1% in methanol)
Purity (HPLC)	99.66%
Related impurities (HPLC)	< LOQFmoc-Gln(Trt)-Gln(Trt)-OH < LOQFmoc- β -Ala-Gln(Trt)-OH not det.Fmoc-Gln-OH not det.Fmoc- β -Ala-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 ₂ O 45/13/1/2 chloroform/methanol/acetic acid 85/10/5 plate: silicagel 60 F ₂₅₄ detected by: UV, ninhydrin, TMB
Other amino acids (GC)	< 0.20%
Enantiomer content (chiral chromatography)	not det.< 0.007% (LOD) D-enantiomer
Assay (titration)	94.8% (TBAH)
Water content (KF volumetric)	0.2%
Acetic acid content (IC)	52mg/kg

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