

Analytical Data Sheet

Lot number **1000010959**
not for drug use

Catalog number **B-2315.0001**
Product number **4019778.0001**
Product **Fmoc- Pen(Trt) - OH**
Molecular formula $C_{39}H_{35}NO_4S$
Relative molecular mass 613.78

Tests	Results
Appearance	white powder
Appearance of solution	clear, colorless solution (50 mg/mL in methanol) clear solution (0.5 mmol/mL in DMF)
Identification (ESI-MS)	m = 613.8u (average mass)
Identification (TLC)	complies with authentic material
Purity (HPLC)	99.5% (TFA)
Related impurities (HPLC)	not det. H-Pen(Trt)-OH not det. Fmoc-β-Ala-OH
Purity (TLC)	> 99%
Related impurities (TLC)	< 0.1% H-Pen-OH
TLC conditions	n-butanol/acetic acid/H ₂ O 4/2/2 chloroform/methanol/acetic acid 32% 5/3/1 chloroform/methanol/toluene/H ₂ O 8/8/8/1 plate: silicagel 60 F ₂₅₄ detected by: UV, ninhydrin, TMB
Enantiomer content (chiral chromatography)	0.1% D-enantiomer
Assay (titration)	88.6% (TBAH)
Water content (KF volumetric)	0.7%
Acetic acid content (IC)	0.006%

Latest update: January 15, 2019

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