

Analytical Data Sheet

Lot number

1039456

not for drug use

Catalog Number	B-1680.0001
Product number	4014141.0001
Product	Fmoc-D-Arg(Pmc)-OH
Molecular formula	$C_{35}H_{42}N_4O_7S$
Relative molecular mass	662.81

Tests	Results
Appearance	white powder
Appearance of solution	clear, colorless solution (50 mg/ml in methanol)
Identification (TLC)	complies with authentic material
Specific optical rotation	$[\alpha]_D^{24} = + 5.2^\circ$ (1% in dimethylformamide) (corrected for assay (titration)) $[\alpha]_{365}^{24} = + 22.2^\circ$ (1% in dimethylformamide) (corrected for assay (titration))
Purity (HPLC)	99.0% (TFA)
Related impurities (HPLC)	< 0.1% Fmoc-D-Arg(Pmc)-D-Arg(Pmc)-OH
Purity (TLC)	> 98%
TLC conditions	chloroform/methanol/acetic acid 77.5/15/7.5 chloroform/methanol/acetic acid/H ₂ O 85/13/0.5/1.5 chloroform/methanol/acetic acid/H ₂ O 45/13/1/2 plate: silicagel 60 F ₂₅₄ detected by: UV, ninhydrin, chlorine-tolidine
Enantiomer content (GC)	< 0.1% L-Enantiomer
Assay (titration)	88.3% (TBAH)
Water content (KF volumetric)	0.3%
Acetic acid content (IC)	< LOQ(0.02 %)
Residual organic solvents (GC)	1.8% hexane 6.5% isopropylether not det. toluene 0.1% dioxane 0.1% cyclohexane 2.0% tetrahydrofuran 10.6% total



Latest update: October 28, 2011

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