

Analytical Data Sheet

Lot number

1056043

not for drug use

Catalog number	B-1680.0005
Product number	4014141.0005
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) clear, colorless solution (0.5 mmol/mL in DMF)
Identification (TLC)	complies with authentic material
Specific optical rotation	$[\alpha]_D^{24} = + 5.2^\circ$ (1% in dimethylformamide) (corrected for assay) $[\alpha]_{365}^{24} = + 22.2^\circ$ (1% in dimethylformamide) (corrected for assay)
Purity (HPLC)	99.5% (TFA)
Related impurities (HPLC)	< 0.1% Fmoc- β -Ala-OH < 0.1% Fmoc- β -Ala-D-Arg(Pmc)-OH < 0.1% Fmoc-D-Arg(Pmc)-D-Arg(Pmc)-OH
Purity (TLC)	> 98%
Related impurities (TLC)	0.2% H-D-Arg(Pmc)-OH
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 (chiral chromatography)	< 0.1% L-enantiomer
Assay (titration)	88.3% (TBAH)
Water content (KF volumetric)	0.3%
Acetic acid content (IC)	0.019%

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, 2014

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