

Analytical Data Sheet

Lot number **1070473**
not for drug use

Catalog number **B-2075.0005**
Product number **4017700.0005**
Product **Fmoc- D- Cit- OH**
Molecular formula $C_{21}H_{23}N_3O_5$
Relative molecular mass 397.43

Tests	Results
Appearance	white powder
Appearance of solution	clear, colorless solution (50 mg/mL in 80% acetic acid) clear, colorless solution (0.5 mmol/mL in DMF)
Identification (TLC)	complies with authentic material
Purity (HPLC)	99.7% (TFA)
Related impurities (HPLC)	not det. Fmoc- β -Ala-OH 0.1% Fmoc- β -Ala-D-Cit-OH
Purity (TLC)	> 99%
Related impurities (TLC)	< 0.1% Fmoc-Orn(Fmoc)-OH < 0.1% H-D-Cit-OH
TLC conditions	chloroform/methanol/acetic acid/H ₂ O 70/42/0.5/10 chloroform/methanol/acetic acid/H ₂ O 45/13/1/2 ethylacetate/pyridine/acetic acid/H ₂ O 60/30/9/16.5 plate: silicagel 60 F ₂₅₄ detected by: UV, ninhydrin, TMB
Enantiomer content (GC)	< 0.1% L-enantiomer
Assay (elemental analysis)	99.6% (Nth 10.57%, Nfd 10.53%)
Water content (KF volumetric)	0.2%
Acetic acid content (IC)	0.0103%

Latest update: March 02, 2017

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