

## Analytical Data Sheet

Lot number **1056992**  
not for drug use

Catalog number **B-2090.0005**  
Product number **4017699.0005**  
Product **Fmoc- 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)	< 0.1% Fmoc- $\beta$ -Ala-OH 0.1% Fmoc- $\beta$ -Ala-Cit-OH
Purity (TLC)	> 99%
Related impurities (TLC)	< 0.2% Fmoc-Orn(Fmoc)-OH < 0.2% H-Cit-OH
TLC conditions	chloroform/methanol/acetic acid/H <sub>2</sub> O 45/13/1/2 chloroform/methanol/acetic acid/H <sub>2</sub> O 70/42/0.5/10 chloroform/methanol/acetic acid 32% 5/3/1 plate: silicagel 60 F <sub>254</sub> detected by: UV, ninhydrin, TMB
Enantiomer content (chiral chromatography)	< 0.1% D-enantiomer
Assay (elemental analysis)	99.6% (Nth 10.57%, Nfd 10.53%)
Water content (KF volumetric)	0.1%
Acetic acid content (IC)	0.016%