

# Analytical Data Sheet

Lot number

## 1043984

not for drug use

<b>Catalog Number</b>	<b>B-2090.0025</b>
<b>Product number</b>	<b>4017699.0025</b>
<b>Product</b>	<b>Fmoc- Cit- OH</b>
<b>Molecular formula</b>	$C_{21}H_{23}N_3O_5$
<b>Relative molecular mass</b>	397.43

Tests	Results
<b>Appearance</b>	white powder
<b>Appearance of solution</b>	clear, colorless solution (50 mg/mL in 80% acetic acid) clear, colorless solution (0.5 mmol/mL in DMF)
<b>Identification (TLC)</b>	complies with authentic material
<b>Purity (HPLC)</b>	99.7% (TFA)
<b>Related impurities (HPLC)</b>	< 0.1% Fmoc-β-Ala-OH 0.1% Fmoc-β-Ala-Cit-OH
<b>Purity (TLC)</b>	≥ 99%
<b>Related impurities (TLC)</b>	< 0.2% H-Cit-OH < 0.2% Fmoc-Orn(Fmoc)-OH
<b>TLC conditions</b>	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, chlorine-tolidine
<b>Enantiomer content (GC)</b>	< 0.1% Fmoc-D-Cit-OH
<b>Assay (elemental analysis)</b>	100.0% (Nth 10.57%, Nfd 10.57%)
<b>Water content (KF volumetric)</b>	0.1 %
<b>Acetic acid content (IC)</b>	0.0051 %

Latest update: August 07, 2012

**Analytical Data Sheet**  
Lot number **1043984**