

Analytical Data Sheet

Lot number **1067765**
not for drug use

Catalog number **B-3970.0001**
Product number **4061391.0001**
Product **Boc- Ser(Leu- Fmoc) - OH**
Molecular formula $C_{29}H_{36}N_2O_8$
Relative molecular mass 540.61

| 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 (ESI-MS) | m = 540.5u (average mass) |
| Specific optical rotation | $[\alpha]_{365}^{24} = -28.6^\circ$ (1% in methanol) |
| Purity (HPLC) | 99.6% (TFA) |
| Related impurities (HPLC) | not det. Fmoc-Leu-OH |
| Purity (TLC) | > 99% |
| Related impurities (TLC) | < 0.2% Boc-Ser-OH |
| TLC conditions | ethylacetate/pyridine/acetic acid/H ₂ O 60/20/6/11 chloroform/methanol/toluene/H ₂ O 8/8/8/1 chloroform/methanol/acetic acid/H ₂ O 90/10/0.5/1 plate: silicagel 60 F ₂₅₄ detected by: UV, ninhydrin, chlorine-tolidine |
| Enantiomer content (chiral chromatography) | 0.1% D-leucin 0.1% D-Serin |
| Assay (titration) | 99.2% (TBAH) |
| Water content (KF volumetric) | 0.1% |
| Acetic acid content (IC) | 0.008% |