

## Analytical Data Sheet

Lot number **1072969**  
not for drug use

Catalog number **B-3960.0001**  
Product number **4061389.0001**  
Product **Boc- Ser(Ile- 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 (TLC)	complies with authentic material
Purity (HPLC)	99.1% (TFA)
Related impurities (HPLC)	0.2% Fmoc-Ile-OH
Purity (TLC)	> 99%
Related impurities (TLC)	< 0.1% Boc-Ser-OH < 0.1% Boc-Ser(Ile-H)-OH
TLC conditions	chloroform/methanol/toluene/H <sub>2</sub> O 8/8/8/1 ethylacetate/pyridine/acetic acid/H <sub>2</sub> O 60/20/6/11 chloroform/methanol/acetic acid/H <sub>2</sub> O 90/10/0.5/1 plate: silicagel 60 F <sub>254</sub> detected by: UV, ninhydrin, TMB
Enantiomer content (GC)	< 0.1% D-Ser isomer 0.1% sum of D-Ile isomer D-allo-Ile isomer L-allo-Ile isomer
Assay (titration)	98.5% (TBAH)
Water content (KF volumetric)	0.1%
Acetic acid content (IC)	< 0.002%