

Analytical Data Sheet

Lot number **1053567**
not for drug use

Catalog number **B-2415.0005**
Product number **4016589.0005**
Product **Fmoc- Cys(SO₃H) - OH · disodium salt**
Molecular formula **C₁₈H₁₅NNa₂O₇S₂**
Relative molecular mass **467.43**

Tests	Results
Appearance	white powder
Appearance of solution	clear, colorless solution (50 mg/mL in dioxane 50%)
Identification (TLC)	complies with authentic material
Specific optical rotation	$[\alpha]_D^{24} = -41.2^\circ$ (1% in water) (corrected for assay)
Purity (HPLC)	98.8%
Related impurities (HPLC)	not det. Fmoc- β -Ala-OH
Purity (TLC)	> 99%
Related impurities (TLC)	< 0.2% H-Cys(SO ₃ H)-OH · sodium salt
TLC conditions	chloroform/methanol/acetic acid 32% 5/3/1 acetonitrile/H ₂ O 7/3 chloroform/methanol/acetic acid/H ₂ O 60/45/14/6 plate: silicagel 60 F ₂₅₄ detected by: UV, ninhydrin, chlorine-tolidine
Enantiomer content (chiral chromatography)	0.2% D-enantiomer
Assay (elemental analysis)	94.2% (Cth 46.25%, Cfd 43.59%)
Water content (KF volumetric)	4.5%
Acetic acid content (IC)	0.006%