



The Power to Question

CERTIFICATE OF ANALYSIS

Catalog Number: sc-285837
Lot Number: SAMPLE
Product Name: Fmoc-S-sulfo-L-cysteine disodium
CAS Number: 163558-30-3
Molecular Formula: $C_{18}H_{15}NO_7S_2 \cdot Na_2$
Molecular Weight: 467.43

| Test | Result |
|---------------------------------------|--------------------------------------------------------|
| Appearance | White powder |
| Assay (Elemental Analysis) | 94.2% (Cth 46.25%, Cfd 43.59%) |
| Enantiomeric Content | 0.2% D-enantiomer (chiral chromatography) |
| Identification (TLC) | Consistent with authentic material |
| Purity (HPLC) | 98.8% |
| Purity (TLC) | > 99% |
| Solution | Clear, colorless solution (50 mg/ml in dioxane 50%) |
| Specific Rotation ($\alpha_{24/D}$) | -41.2° (corrected for assay) |
| Acetic Acid | 0.006% (IC) |
| Impurity A | < 0.1% Fmoc-b-Ala-OH (HPLC) |
| Impurity B | < 0.2% H-Cys(SO ₃ H)-OH · sodium salt (TLC) |
| Water Content (KF) | 4.5% |

Satisfaction Guarantee: We appreciate your business and are committed to providing the highest level of quality and service. Any product that does not meet the performance standards indicated in our product literature will be replaced at no charge. Our policy is valid for one year from the date of your purchase.

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