

## Analytical Data Sheet

Lot number **1000012257**  
not for drug use

Catalog number **B-2540.0001**  
Product number **4025726.0001**  
Product **Fmoc- Cys(4- methoxytrityl) - OH**  
Molecular formula  $C_{38}H_{33}NO_5S$   
Relative molecular mass 615.76

| Tests                          | Results   |
|--------------------------------|---|
| Appearance                     | white powder  |
| Appearance of solution         | clear, colorless solution (50 mg/ml in tetrahydrofuran)   |
| Identification (TLC)           | complies with authentic material  |
| Melting point                  | 128 °C  |
| Specific optical rotation      | $[\alpha]_D^{24} = + 14.0^\circ$ (1 % in tetrahydrofuran)   |
| Purity (HPLC)                  | 99.1% (TFA, 260 nm)   |
| Purity (TLC)                   | > 98%   |
| TLC conditions                 | chloroform/methanol/benzene/H <sub>2</sub> O 8/8/8/1<br>chloroform/methanol/toluene/H <sub>2</sub> O 8/8/8/1<br>benzene/dioxane/acetic acid 95/25/4<br>toluene/dioxane/acetic acid 95/25/4<br>plate: silicagel 60 F <sub>254</sub><br>detected by: UV, ninhydrin, chlorine-tolidine |
| Assay (titration)              | 85.6% (TBAH)  |
| Water content (KF volumetric)  | 1.3%  |
| Residual organic solvents (GC) | 12.3% dioxane<br>0.6% isopropylacetate<br>0.3% diisopropylether<br>0.2% ethylacetate  |

Latest update: February 13, 2019

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