

Analytical Data Sheet

Lot number **1070198**
not for drug use

Catalog number **B-2315.0025**
Product number **4019778.0025**
Product **Fmoc- Pen(Trt) - OH**
Molecular formula **C₃₉H₃₅NO₄S**
Relative molecular mass **613.78**

Tests	Results								
Appearance	white powder								
Appearance of solution	clear, colorless solution (50 mg/ml in methanol)								
Identification (elemental analysis)	<table> <thead> <tr> <th>Theory</th> <th>Found</th> </tr> </thead> <tbody> <tr> <td>C = 76.3 %</td> <td>C = 76.1 %</td> </tr> <tr> <td>H = 5.8 %</td> <td>H = 5.8 %</td> </tr> <tr> <td>N = 2.3 %</td> <td>N = 2.2 %</td> </tr> </tbody> </table>	Theory	Found	C = 76.3 %	C = 76.1 %	H = 5.8 %	H = 5.8 %	N = 2.3 %	N = 2.2 %
Theory	Found								
C = 76.3 %	C = 76.1 %								
H = 5.8 %	H = 5.8 %								
N = 2.3 %	N = 2.2 %								
Identification (TLC)	complies with authentic material								
Melting point	112.7 ° C								
Specific optical rotation	$[\alpha]_D^{24} = + 33.3^\circ$ (1 % in MeOH)								
Purity (HPLC)	99.4%								
Purity (TLC)	> 98%								
TLC conditions	chloroform/methanol/toluene/H ₂ O 8/8/8/1 chloroform/methanol/acetic acid 90/8/2 toluene/dioxane/acetic acid 95/25/4 plate: silicagel 60 F ₂₅₄ detected by: IRH								
Assay (elemental analysis)	99.7% (Cth 76.32 %, Cfd 76.11 %)								

Latest update: February 15, 2017

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