

Analytical Data Sheet

Lot number **1056067**
not for drug use

Catalog number **A-3550.0005**
Product number **4019781.0005**
Product **Boc- Pen(Trt) - OH**
Molecular formula **C₂₉H₃₃NO₄S**
Relative molecular mass **491.65**

Tests	Results								
Appearance	white product								
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 = 71.17 %</td> <td>C = 71.24 %</td> </tr> <tr> <td>H = 7.01 %</td> <td>H = 7.16 %</td> </tr> <tr> <td>N = 2.78 %</td> <td>N = 2.75 %</td> </tr> </tbody> </table> <p>calc. as 0.15 hexane (2.6 %)</p>	Theory	Found	C = 71.17 %	C = 71.24 %	H = 7.01 %	H = 7.16 %	N = 2.78 %	N = 2.75 %
Theory	Found								
C = 71.17 %	C = 71.24 %								
H = 7.01 %	H = 7.16 %								
N = 2.78 %	N = 2.75 %								
Identification (TLC)	complies with authentic material								
Melting point	135 °C								
Specific optical rotation	$[\alpha]_D^{24} = +52.8^\circ$ (1 % in methanol)								
Purity (TLC)	> 98%								
TLC conditions	chloroform/methanol/benzene/H ₂ O 8/8/8/1 chloroform/methanol/acetic acid 90/8/2 benzene/dioxane/acetic acid 95/25/4 plate: silicagel 60 F ₂₅₄ detected by: UV, ninhydrin, chlorine-tolidine								
Residual organic solvents (GC)	2.3% hexane								