

Analytical Data Sheet

Lot number **1000018967**
not for drug use

Catalog number **A-2345.0025**
Product number **4010088.0025**
Product **Boc- Lys(Tfa) - OH**
Molecular formula $C_{13}H_{21}F_3N_2O_5$
Relative molecular mass 342.32

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 = 45.6 %</td> <td>C = 45.3 %</td> </tr> <tr> <td>H = 6.2 %</td> <td>H = 6.0 %</td> </tr> <tr> <td>N = 8.2 %</td> <td>N = 8.1 %</td> </tr> </tbody> </table>	Theory	Found	C = 45.6 %	C = 45.3 %	H = 6.2 %	H = 6.0 %	N = 8.2 %	N = 8.1 %
Theory	Found								
C = 45.6 %	C = 45.3 %								
H = 6.2 %	H = 6.0 %								
N = 8.2 %	N = 8.1 %								
Identification (TLC)	complies with authentic material								
Melting point	106 °C								
Specific optical rotation	$[\alpha]_D^{24} = -13.7^\circ$ (1 % in dimethylformamide)								
Purity (TLC)	> 99%								
TLC conditions	chloroform/methanol/toluene/H ₂ O 8/8/8/1 chloroform/methanol/acetic acid 85/10/5 plate: silicagel 60 F ₂₅₄ detected by: UV, ninhydrin, chlorine-tolidine								
Assay (elemental analysis)	99.4% (Cth 45.61 %, Cfd 45.34 %)								

Latest update: July 24, 2019

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