

# Analytical Data Sheet

Lot number

## 1033077

not for drug use

<b>Catalog Number</b>	<b>A-1030.0025</b>
<b>Product number</b>	<b>4009543.0025</b>
<b>Product</b>	<b>Boc- Lys(Boc) - ONp</b>
<b>Molecular formula</b>	$C_{22}H_{33}N_3O_8$
<b>Relative molecular mass</b>	467.52

Tests	Results								
<b>Appearance</b>	slightly yellow powder								
<b>Appearance of solution</b>	clear, light yellow solution (50 mg/ml in acetone)								
<b>Identification (elemental analysis)</b>	<table border="0"> <tr> <td>Theory</td> <td>Found</td> </tr> <tr> <td>C = 56.5 %</td> <td>C = 56.2 %</td> </tr> <tr> <td>H = 7.1 %</td> <td>H = 6.9 %</td> </tr> <tr> <td>N = 9.0 %</td> <td>N = 8.9 %</td> </tr> </table>	Theory	Found	C = 56.5 %	C = 56.2 %	H = 7.1 %	H = 6.9 %	N = 9.0 %	N = 8.9 %
Theory	Found								
C = 56.5 %	C = 56.2 %								
H = 7.1 %	H = 6.9 %								
N = 9.0 %	N = 8.9 %								
<b>Identification (TLC)</b>	complies with authentic material								
<b>Melting point</b>	124 °C								
<b>Specific optical rotation</b>	$[\alpha]_D^{24} = -29.9^\circ$ (2 % in methanol)								
<b>Purity (TLC)</b>	> 98% *								
<b>TLC conditions</b>	methanol 80 % plate: RP-8 detected by: chlorine-tolidine  toluene/dioxane/acetic acid 95/25/4 chloroform/ethylacetate/acetic acid 50/50/2 ethylacetate/hexane 4/5 plate: silicagel 60 F <sub>254</sub> detected by: UV, ninhydrin, chlorine-tolidine								
<b>Assay (elemental analysis)</b>	99.4 % (Cth 56.52 %, Cfd 56.19 %)								

Latest update: October 08, 2010

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