

Analytical Data Sheet

Lot number

1036628

not for drug use

Catalog Number	A-1030.0005
Product number	4009543.0005
Product	Boc- Lys(Boc) - ONp
Molecular formula	$C_{22}H_{33}N_3O_8$
Relative molecular mass	467.52

Tests	Results								
Appearance	slightly yellow powder								
Appearance of solution	clear, light yellow solution (50 mg/ml in acetone)								
Identification (elemental analysis)	<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 %								
Identification (TLC)	complies with authentic material								
Melting point	124 °C								
Specific optical rotation	$[\alpha]_D^{24} = -29.9^\circ$ (2 % in methanol)								
Purity (TLC)	> 98% *								
TLC conditions	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 ₂₅₄ detected by: UV, ninhydrin, chlorine-tolidine								
Assay (elemental analysis)	99.4 % (Cth 56.52 %, Cfd 56.19 %)								
Latest update: May 06, 2011									