

Analytical Data Sheet

Lot number

1047067

not for drug use

Catalog Number	Q-1005.0250
Product number	4006354.0250
Product	Ac- α- benzyl- 4, 6- O- benzylidene- muramic acid
Molecular formula	$C_{25}H_{29}NO_8$
Relative molecular mass	471.51

Tests	Results								
Appearance	white powder								
Appearance of solution	clear, colorless solution (50 mg/ml in MeOH/CHCl ₃ 1:1)								
Identification (elemental analysis)	<table border="0"> <tr> <td>Theory</td> <td>Found</td> </tr> <tr> <td>C = 63.7 %</td> <td>C = 63.6 %</td> </tr> <tr> <td>H = 6.2 %</td> <td>H = 6.2 %</td> </tr> <tr> <td>N = 3.0 %</td> <td>N = 2.8 %</td> </tr> </table>	Theory	Found	C = 63.7 %	C = 63.6 %	H = 6.2 %	H = 6.2 %	N = 3.0 %	N = 2.8 %
Theory	Found								
C = 63.7 %	C = 63.6 %								
H = 6.2 %	H = 6.2 %								
N = 3.0 %	N = 2.8 %								
Identification (TLC)	complies with authentic material								
Specific optical rotation	$[\alpha]_D^{24} = +117.9^\circ$ (1 % in MeOH)								
Purity (TLC)	$\geq 98\%$								
TLC conditions	chloroform/methanol/acetic acid 90/8/2 chloroform/methanol 8/2 chloroform/methanol/toluene/H ₂ O 8/8/8/1 plate: silicagel 60 F ₂₅₄ detected by: UV, ninhydrin, chlorine-tolidine, ammoniummolybdate								
Water content (KF volumetric)	0.1 %								
Latest update: February 28, 2013									