

Analytical Data Sheet

Lot number

1052412

not for drug use

Catalog Number	M-1735.0050
Product number	4009924.0050
Product	Suc- Ala- Ala- Pro- Phe- SBzl
Molecular formula	C₃₁H₃₈N₄O₇S
Relative molecular mass	610.73

Tests	Results								
Appearance	white product								
Appearance of solution	clear, colorless solution (50 mg/ml in methanol)								
Identification (elemental analysis)	<table border="0"> <tr> <td>Theory</td> <td>Found</td> </tr> <tr> <td>C = 58.55 %</td> <td>C = 58.99 %</td> </tr> <tr> <td>H = 6.47 %</td> <td>H = 6.40 %</td> </tr> <tr> <td>N = 8.81 %</td> <td>N = 8.91 %</td> </tr> </table> <p>Calc. as 1.4 H₂O (3.97 %)</p>	Theory	Found	C = 58.55 %	C = 58.99 %	H = 6.47 %	H = 6.40 %	N = 8.81 %	N = 8.91 %
Theory	Found								
C = 58.55 %	C = 58.99 %								
H = 6.47 %	H = 6.40 %								
N = 8.81 %	N = 8.91 %								
Melting point	129 °C								
Specific optical rotation	$[\alpha]_D^{24} = -84.9^\circ$ (1 % in DMF)								
Purity (TLC)	> 98%								
TLC conditions	Chloroform/methanol/acetic acid/H ₂ O 90/10/0.5/1 Chloroform/methanol/toluene/H ₂ O 8/8/8/1 Chloroform/methanol/acetic acid 32% 15/4/1 Plate: silicagel 60 F ₂₅₄ Detected by: UV, ninhydrin, TMB								
Assay (elemental analysis)	97.0% (Cth 60.97 %, Cfd 58.89 %)								
Water content (KF volumetric)	4.0%								
Latest update: February 24, 2014									