

Analytical Data Sheet

Lot number

1024892

not for drug use

Catalog Number	C-3255.0001
Product number	4000589.0001
Product	Z- D- Ala- NH ₂
Molecular formula	C ₁₁ H ₁₄ N ₂ O ₃
Relative molecular mass	222.24

Tests	Results								
Appearance	white powder								
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 = 59.45 %</td> <td>C = 59.39 %</td> </tr> <tr> <td>H = 6.35 %</td> <td>H = 6.47 %</td> </tr> <tr> <td>N = 12.60 %</td> <td>N = 12.61 %</td> </tr> </table>	Theory	Found	C = 59.45 %	C = 59.39 %	H = 6.35 %	H = 6.47 %	N = 12.60 %	N = 12.61 %
Theory	Found								
C = 59.45 %	C = 59.39 %								
H = 6.35 %	H = 6.47 %								
N = 12.60 %	N = 12.61 %								
Identification (TLC)	complies with authentic material								
Melting point	133 °C								
Purity (TLC)	> 99%								
Related impurities (TLC)	< 0.2% Z-D-Ala OH								
TLC conditions	chloroform/methanol/benzene/H ₂ O 8/8/8/1 chloroform/methanol 9/1 benzene/dioxane/acetic acid 95/25/4 plate: silicagel 60 F ₂₅₄ detected by: UV, ninhydrin, chlorine-tolidine								
Enantiomer content (GC)	0.1% L-Enantiomer								
Latest update: July 21, 2010									