

Analytical Data Sheet

Lot number

1031504

not for drug use

Catalog Number	G-1130.0001
Product number	4000600.0001
Product	H- D- Ala- Ala- OH
Molecular formula	C ₆ H ₁₂ N ₂ O ₃
Relative molecular mass	160.17

Tests	Results								
Appearance	white powder								
Appearance of solution	clear, colorless solution (50 mg/ml in acetic acid 80 %)								
Identification (elemental analysis)	<table> <tr> <td>Theory</td> <td>Found</td> </tr> <tr> <td>C = 45.0 %</td> <td>C = 44.8 %</td> </tr> <tr> <td>H = 7.6 %</td> <td>H = 7.3 %</td> </tr> <tr> <td>N = 17.5 %</td> <td>N = 17.5 %</td> </tr> </table>	Theory	Found	C = 45.0 %	C = 44.8 %	H = 7.6 %	H = 7.3 %	N = 17.5 %	N = 17.5 %
Theory	Found								
C = 45.0 %	C = 44.8 %								
H = 7.6 %	H = 7.3 %								
N = 17.5 %	N = 17.5 %								
Identification (TLC)	complies with authentic material								
Specific optical rotation	$[\alpha]_D^{24} = -69.2^\circ$ (2 % in water)								
Purity (TLC)	> 99%								
TLC conditions	ethylacetate/pyridine/acetic acid/H ₂ O 60/60/12/36 isopropanol/ammonia conc. 1/1 methanol/chloroform/ammonia 17% 2/2/1 n-butanol/acetic acid/H ₂ O 4/2/2 plate: silicagel 60 F ₂₅₄ detected by: UV, ninhydrin, chlorine-tolidine								
Assay (elemental analysis)	100.1 % (Nth 17.49 %, Nfd 17.51 %)								
Assay (titration)	99.2% (HClO ₄)								
Water content (KF volumetric)	0.3%								
Latest update: June 29, 2010									