

Analytical Data Sheet

Lot number

1039995

not for drug use

Catalog Number	F-1130.0005
Product number	4003756.0005
Product	H- D- Ala- OtBu · HCl
Molecular formula	C ₇ H ₁₅ NO ₂ · HCl
Relative molecular mass	181.66

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 = 46.3 %</td> <td>C = 46.3 %</td> </tr> <tr> <td>H = 8.9 %</td> <td>H = 8.8 %</td> </tr> <tr> <td>N = 7.7 %</td> <td>N = 7.7 %</td> </tr> </table>	Theory	Found	C = 46.3 %	C = 46.3 %	H = 8.9 %	H = 8.8 %	N = 7.7 %	N = 7.7 %
Theory	Found								
C = 46.3 %	C = 46.3 %								
H = 8.9 %	H = 8.8 %								
N = 7.7 %	N = 7.7 %								
Identification (TLC)	complies with authentic material								
Specific optical rotation	$[\alpha]_{365}^{24} = -14.9^{\circ}$ (2 % in ethanol)								
Purity (TLC)	> 99%								
Related impurities (TLC)	< 0.2% H-D-Ala-OH								
TLC conditions	n-butanol/acetic acid/H ₂ O 4/2/2 chloroform/methanol/acetic acid/H ₂ O 45/13/1/2 ethylacetate/pyridine/acetic acid/H ₂ O 60/20/6/11 plate: silicagel 60 F ₂₅₄ detected by: UV, ninhydrin, chlorine-tolidine								
Enantiomer content (GC)	0.1% L- Enantiomer								
Assay (elemental analysis)	100.0% (Cth 46.28 %, Cfd 46.30 %)								
Water content (KF volumetric)	0.2%								
Chloride content (titration)	19.5%								
Latest update: December 14, 2011									