

Analytical Data Sheet

Lot number

1028675

not for drug use

Catalog Number	A-2740.0005
Product number	4004479.0005
Product	Boc- Ala- Pro- OH
Molecular formula	$C_{13}H_{22}N_2O_5$
Relative molecular mass	286.33

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 = 54.5 %</td> <td>C = 54.2 %</td> </tr> <tr> <td>H = 7.7 %</td> <td>H = 7.6 %</td> </tr> <tr> <td>N = 9.8 %</td> <td>N = 9.7 %</td> </tr> </table>	Theory	Found	C = 54.5 %	C = 54.2 %	H = 7.7 %	H = 7.6 %	N = 9.8 %	N = 9.7 %
Theory	Found								
C = 54.5 %	C = 54.2 %								
H = 7.7 %	H = 7.6 %								
N = 9.8 %	N = 9.7 %								
Identification (TLC)	complies with authentic material								
Melting point	159 °C								
Specific optical rotation	$[\alpha]_D^{24} = -106.4^\circ$ (1% in methanol) (corrected for assay)								
Purity (TLC)	> 99%								
Related impurities (TLC)	< 0.2% Boc-Ala-OH								
TLC conditions	toluene/dioxane/acetic acid 95/25/4 chloroform/ethylacetate/acetic acid 50/50/2 ethylacetate/pyridine/acetic acid/H ₂ O 60/10/3/4 plate: silicagel 60 F ₂₅₄ detected by: UV, ninhydrin, chlorine-tolidine								
Enantiomer content (GC)	< 0.1% D-Ala enantiomer < 0.1% D-Pro enantiomer								
Assay (titration)	98.0% (TBAH)								
Water content (KF volumetric)	0.5%								

Latest update: January 19, 2010

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