

Analytical Data Sheet

Lot number

1020796

not for drug use

Catalog Number	A-1060.0500
Product number	4000225.0500
Product	Boc- Ala- OH
Molecular formula	$C_8H_{15}NO_4$
Relative molecular mass	189.21

Tests	Results								
Appearance	white powder								
Appearance of solution	clear, colorless solution (50 mg/ml in methanol)								
Identification (elemental analysis)	<table> <tr> <td>Theory</td> <td>Found</td> </tr> <tr> <td>C = 50.8 %</td> <td>C = 50.8 %</td> </tr> <tr> <td>H = 8.0 %</td> <td>H = 8.0 %</td> </tr> <tr> <td>N = 7.4 %</td> <td>N = 7.4 %</td> </tr> </table>	Theory	Found	C = 50.8 %	C = 50.8 %	H = 8.0 %	H = 8.0 %	N = 7.4 %	N = 7.4 %
Theory	Found								
C = 50.8 %	C = 50.8 %								
H = 8.0 %	H = 8.0 %								
N = 7.4 %	N = 7.4 %								
Identification (TLC)	complies with authentic material								
Melting point	83 °C								
Specific optical rotation	$[\alpha]_D^{24} = -25.6^\circ$ (2 % in acetic acid)								
Purity (TLC)	> 99%								
Related impurities (TLC)	<p>< 0.1% Boc-Ala-Ala-OH</p> <p>< 0.1% H-Ala-OH</p>								
TLC conditions	<p>chloroform/methanol/toluene/H₂O 8/8/8/1</p> <p>chloroform/methanol/acetic acid 85/10/5</p> <p>plate: silicagel 60 F₂₅₄</p> <p>detected by: UV, ninhydrin, TMB</p>								
Enantiomer content (GC)	< 0.1% Boc-D-Ala-OH								
Other amino acids (GC)	< 0.3%								
Assay (elemental analysis)	100.1 % (Cth 50.78 %, Cfd 50.81 %)								
Latest update: December 01, 2008									