

Analytical Data Sheet

Lot number **1073427**
not for drug use

Catalog number **A-1060.1000**
Product number **4000225.1000**
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) essentially clear solution (0.5 mmol/mL in DMF)								
Identification (elemental analysis)	<table> <thead> <tr> <th>Theory</th> <th>Found</th> </tr> </thead> <tbody> <tr> <td>C = 50.8%</td> <td>C = 50.7%</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> </tbody> </table>	Theory	Found	C = 50.8%	C = 50.7%	H = 8.0%	H = 8.0%	N = 7.4%	N = 7.4%
Theory	Found								
C = 50.8%	C = 50.7%								
H = 8.0%	H = 8.0%								
N = 7.4%	N = 7.4%								
Identification (TLC)	complies with authentic material								
Kaiser test	slightly blue solution								
Melting point	83 °C								
Specific optical rotation	$[\alpha]_D^{24} = -25.6^\circ$ (2 % in acetic acid)								
Purity (TLC)	> 99%								
Related impurities (TLC)	< 0.1% Boc-Ala-Ala-OH < 0.1% H-Ala-OH								
TLC conditions	chloroform/methanol/acetic acid 85/10/5 chloroform/methanol/toluene/H ₂ O 8/8/8/1 plate: silicagel 60 F ₂₅₄ detected by: UV, ninhydrin, TMB								
Enantiomer content (GC)	< 0.1% D-enantiomer								
Other amino acids (GC)	< 0.3%								
Assay (elemental analysis)	99.8% (Cth 50.78%, Cfd 50.68%)								