

Analytical Data Sheet

Lot number **1052667**
not for drug use

Catalog number **A-1065.0100**
Product number **4000180.0100**
Product **Boc- D- 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) clear, colorless solution (0.5 mmol/mL in DMF)
Identification (elemental analysis)	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	84 °C
Specific optical rotation	$[\alpha]_D^{24} = +25.3^\circ$ (2 % in acetic acid)
Purity (TLC)	> 99%
Related impurities (TLC)	< 0.1% Boc-D-Ala-D-Ala-OH < 0.1% H-D-Ala-OH
TLC conditions	chloroform/methanol/acetic acid 90/8/2 chloroform/methanol/acetic acid 90/8/2 toluene/dioxane/acetic acid 95/25/4 plate: silicagel 60 F ₂₅₄ detected by: UV, ninhydrin, chlorine-tolidine
Enantiomer content (GC)	< 0.1% L-Enantiomer
Assay (titration)	99.8% (TBAH)