

Analytical Data Sheet

Lot number **1000038113**
not for drug use

Product Boc-Ala-OH
Product number **4000225.0100**
Molecular formula C₈H₁₅NO₄
Relative molecular mass 189.21

Tests	Results
Appearance	white powder
Appearance of solution (Turbidimetry)	clear, colorless solution (0.5 mmol/mL in DMF) 1.5 NTU (94.6 mg/mL in DMF) slightly hazy solution (0.5 mmol/mL in DCM) 10.2 NTU
Identification (TLC)	complies with authentic material
Kaiser test	slightly blue solution
Melting point	83 ° C
Specific optical rotation	[α] _D ²⁴ = -25.6 ° (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
Other amino acids (GC)	< 0.3%
Enantiomer content (chiral chromatography)	< 0.1% D-enantiomer
Assay (titration)	99.7% (TBAH)

Latest update: September 10, 2020

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