

Analytical Data Sheet

Lot number

1038799

not for drug use

Catalog Number	A-4210.0001
Product number	4028346.0001
Product	Boc- β- tBu- D- Ala- OH
Molecular formula	$C_{12}H_{23}NO_4$
Relative molecular mass	245.32

Tests	Results
Appearance	white powder
Appearance of solution	clear, colorless solution (50 mg/ml in methanol)
Identification (TLC)	conforms with authentic material
Melting point	102 °C
Specific optical rotation	$[\alpha]_D^{24} = + 16.0^\circ$ (1 % in methanol)
Purity (TLC)	> 99%
TLC conditions	chloroform/methanol/benzene/H ₂ O 8/8/8/1 chloroform/methanol/acetic acid 90/8/2 benzene/dioxane/acetic acid 95/25/4 plate: silicagel 60 F ₂₅₄ detected by: UV, ninhydrin, chlorine-tolidine
Assay (elemental analysis)	99.5% (Nth 5.71 %, Nfd 5.68 %)
Water content (KF volumetric)	0.4%
Latest update: October 04, 2011	Analytical Data Sheet Lot number 1038799