

## Analytical Data Sheet

Lot number **1072144**  
not for drug use

Catalog number **A-3200.0005**  
Product number **4017308.0005**  
Product **Boc- Val- Val- OH**  
Molecular formula  $C_{15}H_{28}N_2O_5$   
Relative molecular mass 316.40

Tests	Results
Appearance	white powder
Appearance of solution	clear, colorless solution (50 mg/mL in methanol)
Identification (elemental analysis)	Theory Found C = 56.9% C = 56.8% H = 8.9% H = 8.9% N = 8.9% N = 8.8%
Identification (TLC)	complies with authentic material
Melting point	159 °C
Specific optical rotation	$[\alpha]_D^{24} = -28.7^\circ$ (1% in methanol)
Purity (TLC)	> 99%
TLC conditions	chloroform/ethylacetate/acetic acid 90/10/2 toluene/dioxane/acetic acid 95/25/4 chloroform/methanol/acetic acid 90/8/2 plate: silicagel 60 F <sub>254</sub> detected by: UV, ninhydrin, chlorine-tolidine
Assay (elemental analysis)	99.8% (Cth 56.94%, Cfd 56.84%)
Water content (KF volumetric)	0.3%

Latest update: July 05, 2017

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