

Analytical Data Sheet

Lot number **1074826**
not for drug use

Catalog number **C-2835.0025**
Product number **4007093.0025**
Product **Z- Val- Ala- OH**
Molecular formula $C_{16}H_{22}N_2O_5$
Relative molecular mass 322.36

Tests	Results
Appearance	white powder
Appearance of solution	clear, colorless solution (50 mg/mL in methanol)
Identification (elemental analysis)	Theory Found C = 59.6% C = 59.4% H = 6.9% H = 6.7% N = 8.7% N = 8.6%
Identification (TLC)	complies with authentic material
Specific optical rotation	$[\alpha]_D^{24} = -31.8^\circ$ (1% in methanol)
Purity (TLC)	> 99%
TLC conditions	chloroform/methanol/acetic acid 85/10/5 chloroform/ethylacetate/acetic acid 50/50/2 chloroform/methanol/toluene/H ₂ O 8/8/8/1 plate: silicagel 60 F ₂₅₄ detected by: UV, ninhydrin, chlorine-tolidine
Assay (elemental analysis)	99.6% (Cth 59.62%, Cfd 59.39%)
Water content (KF volumetric)	0.8%

Latest update: December 14, 2017

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