

Analytical Data Sheet

Lot number **1073891**
not for drug use

Catalog number **H-1265.0250**
Product number **4008059.0250**
Product **H- D- Ala- D- Ala- D- Ala- D- Ala- OH**
Molecular formula $C_{12}H_{22}N_4O_5$
Relative molecular mass 302.33

Tests	Results
Appearance	off-white powder
Appearance of solution	clear, colorless solution (50 mg/mL in 1N HCl)
Identification (ESI-MS)	m = 302.3u (average mass)
Identification (TLC)	complies with authentic material
Melting point	$[\alpha]_D^{24} = -120.9^\circ$ (2% in 2 N HCl)
Specific optical rotation	$[\alpha]_D^{24} = +115.4^\circ$ (0.5% in 1N HCl)
Purity (TLC)	> 98%
TLC conditions	chloroform/methanol/acetic acid 32% 5/3/1 n-butanol/acetic acid/H ₂ O 4/2/2 plate: silicagel 60 F ₂₅₄ detected by: UV, ninhydrin, chlorine-tolidine
Assay (elemental analysis)	93.9% (Nth 18.53%, Nfd 17.41%)

Latest update: October 31, 2017

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