

Analytical Data Sheet

Lot number	1000043626 not for drug use
Product	H-D-Ala-D-Ala-OH
Product number	4000279.0001
Molecular formula	C ₆ H ₁₂ N ₂ O ₃
Relative molecular mass	160.17

Tests	Results
Appearance	white powder
Appearance of solution	clear, colorless solution (50 mg/mL in AcOH 80%)
Identification (elemental analysis)	C-Value 44.6% H-Value 7.6% N-Value 17.3%
Identification (TLC)	complies with authentic material
Specific optical rotation	$[\alpha]_{\text{D}}^{24} = +37.2^{\circ}$ (2% in 0.5M hydrochloric acid)
Purity (TLC)	> 99%
TLC conditions	n-butanol/acetic acid/H ₂ O 4/2/2 methanol/chloroform/ammonia 17% 2/2/1 isopropanol/ammonia conc. 1/1 plate: silicagel 60 F ₂₅₄ detected by: UV, ninhydrin, TMB
Assay (elemental analysis)	98.8% (N _{Th} 17.49%, N _{Fd} 17.28%)
Water content (KF volumetric)	1.0%

Latest update: February 16, 2021

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