

Analytical Data Sheet

Lot number **1000024437**
not for drug use

Catalog number **G-1125.0001**
Product number **4002261.0001**
Product **H- Ala- D- Ala- OH**
Molecular formula **C₆H₁₂N₂O₃**
Relative molecular mass **160.17**

Tests	Results								
Appearance	white powder								
Appearance of solution	clear, colorless solution (50 mg/ml in water)								
Identification (elemental analysis)	<table> <thead> <tr> <th>Theory</th> <th>Found</th> </tr> </thead> <tbody> <tr> <td>C = 45.0 %</td> <td>C = 44.9 %</td> </tr> <tr> <td>H = 7.6 %</td> <td>H = 7.4 %</td> </tr> <tr> <td>N = 17.5 %</td> <td>N = 17.5 %</td> </tr> </tbody> </table>	Theory	Found	C = 45.0 %	C = 44.9 %	H = 7.6 %	H = 7.4 %	N = 17.5 %	N = 17.5 %
Theory	Found								
C = 45.0 %	C = 44.9 %								
H = 7.6 %	H = 7.4 %								
N = 17.5 %	N = 17.5 %								
Identification (TLC)	complies with authentic material								
Specific optical rotation	$[\alpha]_D^{24} = +71.0^\circ$ (1 % in water)								
Purity (TLC)	> 99%								
TLC conditions	n-butanol/acetic acid/H ₂ O 4/2/2 isopropanol/ammonia conc. 1/1 methanol/chloroform/ammonia 17% 2/2/1 plate : silicagel 60 F ₂₅₄ detected by: UV, ninhydrin, chlorine-tolidine								
Assay (titration)	99.9% (HClO ₄)								

Latest update: November 11, 2019

Analytical Data Sheet
Lot number **1000024437**