

Analytical Data Sheet

Lot number **1071290**
not for drug use

Catalog number **G-2850.0005**
Product number **4002640.0005**
Product **H- Phe- Ala- OH**
Molecular formula $C_{12}H_{16}N_2O_3$
Relative molecular mass 236.27

Tests	Results								
Appearance	white powder								
Appearance of solution	clear, colorless solution (50 mg/mL in 80% acetic acid)								
Identification (elemental analysis)	<table> <thead> <tr> <th>Theory</th> <th>Found</th> </tr> </thead> <tbody> <tr> <td>C = 52.6%</td> <td>C = 52.8%</td> </tr> <tr> <td>H = 7.4%</td> <td>H = 7.3%</td> </tr> <tr> <td>N = 10.2%</td> <td>N = 10.3%</td> </tr> </tbody> </table> <p>calc. as: x 2.1 H₂O (13.5%)</p>	Theory	Found	C = 52.6%	C = 52.8%	H = 7.4%	H = 7.3%	N = 10.2%	N = 10.3%
Theory	Found								
C = 52.6%	C = 52.8%								
H = 7.4%	H = 7.3%								
N = 10.2%	N = 10.3%								
Identification (TLC)	complies with authentic material								
Specific optical rotation	$[\alpha]_D^{24} = +12.4^\circ$ (2% in water)								
Purity (TLC)	> 99%								
TLC conditions	ethylacetate/pyridine/acetic acid/H ₂ O 6/4/1/3 n-butanol/acetic acid/H ₂ O 4/2/2 chloroform/methanol/acetic acid 32% 5/3/1 plate: silicagel 60 F ₂₅₄ detected by: UV, ninhydrin, TMB								
Assay (elemental analysis)	86.4% (Nth 11.86%, Nfd 10.25%)								
Water content (KF volumetric)	14.4%								
General comment	product supplied as dihydrate								

Latest update: April 24, 2017

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