

Analytical Data Sheet

Lot number **1000015324**
not for drug use

Catalog number **G-3085.0001**
Product number **4007540.0001**
Product **H- Pro- Val- OH**
Molecular formula $C_{10}H_{18}N_2O_3$
Relative molecular mass 214.27

Tests	Results								
Appearance	white crystalline powder								
Appearance of solution	clear, colorless solution (50 mg/ml in AcOH 80 %)								
Identification (elemental analysis)	<table> <thead> <tr> <th>Theory</th> <th>Found</th> </tr> </thead> <tbody> <tr> <td>C = 51.71 %</td> <td>C = 51.43 %</td> </tr> <tr> <td>H = 8.68 %</td> <td>H = 8.58 %</td> </tr> <tr> <td>N = 12.06 %</td> <td>N = 12.01 %</td> </tr> </tbody> </table> <p>calc. as 1 H₂O (7.8 %)</p>	Theory	Found	C = 51.71 %	C = 51.43 %	H = 8.68 %	H = 8.58 %	N = 12.06 %	N = 12.01 %
Theory	Found								
C = 51.71 %	C = 51.43 %								
H = 8.68 %	H = 8.58 %								
N = 12.06 %	N = 12.01 %								
Identification (TLC)	conforms with authentic material								
Specific optical rotation	$[\alpha]_D^{24} = -63.0^\circ$ (1.5 % in H ₂ O)								
Purity (TLC)	> 99%								
TLC conditions	n-butanol/acetic acid/H ₂ O 4/2/2 isopropanol/ammonia conc. 1/1 plate: silicagel 60 F ₂₅₄ detected by: UV, ninhydrin, TMB								
Water content (KF volumetric)	8.0%								

Latest update: May 02, 2019

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