

## Analytical Data Sheet

Lot number **1059990**  
not for drug use

Catalog number **E-2560.0250**  
Product number **4031328.0250**  
Product **H- Val- OH**  
Molecular formula  $C_5H_{11}NO_2$   
Relative molecular mass 117.15

Tests	Results								
Appearance	slightly yellow powder								
Appearance of solution	clear, colorless solution (50 mg/ml in 1N HCl)								
Identification (elemental analysis)	<table> <thead> <tr> <th>Theory</th> <th>Found</th> </tr> </thead> <tbody> <tr> <td>C = 51.3%</td> <td>C = 51.4%</td> </tr> <tr> <td>H = 9.5%</td> <td>H = 9.4%</td> </tr> <tr> <td>N = 12.0%</td> <td>N = 12.0%</td> </tr> </tbody> </table>	Theory	Found	C = 51.3%	C = 51.4%	H = 9.5%	H = 9.4%	N = 12.0%	N = 12.0%
Theory	Found								
C = 51.3%	C = 51.4%								
H = 9.5%	H = 9.4%								
N = 12.0%	N = 12.0%								
Identification (TLC)	complies with authentic material								
Specific optical rotation	$[\alpha]_D^{24} = +24.0^\circ$ (5 % in 1 N HCl)								
Purity (TLC)	> 99%								
TLC conditions	n-butanol/acetic acid/H <sub>2</sub> O 4/2/2 isopropanol/ammonia conc. 1/1 methanol/chloroform/ammonia 17% 2/2/1 plate: silicagel 60 F <sub>254</sub> detected by: UV, ninhydrin, TMB								
Enantiomer content (GC)	< 0.1% D-enantiomer								
Other amino acids (GC)	< 0.3%								
Assay (elemental analysis)	100.1% (Nth 11.96%, Nfd 11.97%)								

Latest update: June 17, 2015

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