

Analytical Data Sheet

Lot number **1061236**
not for drug use

Catalog number **E-1285.0250**
Product number **4030174.0250**
Product **H- Ala- OH**
Molecular formula **C₃H₇NO₂**
Relative molecular mass **89.09**

Tests	Results								
Appearance	white crystalline powder								
Identification (IR)	conforms to reference spectrum								
Identification (elemental analysis)	<table> <thead> <tr> <th>Theory</th> <th>Found</th> </tr> </thead> <tbody> <tr> <td>C = 40.4%</td> <td>C = 40.3%</td> </tr> <tr> <td>H = 7.9%</td> <td>H = 8.0%</td> </tr> <tr> <td>N = 15.7%</td> <td>N = 15.6%</td> </tr> </tbody> </table>	Theory	Found	C = 40.4%	C = 40.3%	H = 7.9%	H = 8.0%	N = 15.7%	N = 15.6%
Theory	Found								
C = 40.4%	C = 40.3%								
H = 7.9%	H = 8.0%								
N = 15.7%	N = 15.6%								
Identification (TLC)	complies with authentic material								
Specific optical rotation	$[\alpha]_D^{24} = +14.2^\circ$ (5 % in 1N HCl)								
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, TMB								
Enantiomer content (GC)	< 0.1% D-enantiomer								
Other amino acids (GC)	< 0.3%								
Assay (elemental analysis)	99.3(Nth 15.72% Nfd 15.60%)								

Latest update: August 25, 2015

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