

Analytical Data Sheet

Lot number **1074797**
not for drug use

Catalog number **F-1160.5000**
Product number **4006513.5000**
Product **H- allo- Ile- OH**
Molecular formula $C_6H_{13}NO_2$
Relative molecular mass 131.18

Tests	Results								
Appearance	white crystals								
Appearance of solution	clear, colorless solution (10mg/ml in 80% AcOH)								
Identification (elemental analysis)	<table> <thead> <tr> <th>Theory</th> <th>Found</th> </tr> </thead> <tbody> <tr> <td>C = 54.9 %</td> <td>C = 54.6 %</td> </tr> <tr> <td>H = 10.0 %</td> <td>H = 9.9 %</td> </tr> <tr> <td>N = 10.7 %</td> <td>N = 10.5 %</td> </tr> </tbody> </table>	Theory	Found	C = 54.9 %	C = 54.6 %	H = 10.0 %	H = 9.9 %	N = 10.7 %	N = 10.5 %
Theory	Found								
C = 54.9 %	C = 54.6 %								
H = 10.0 %	H = 9.9 %								
N = 10.7 %	N = 10.5 %								
Identification (TLC)	complies with authentic material								
Specific optical rotation	$[\alpha]_D^{24} = +37.3^\circ$ (4 % 6N HCl)								
Purity (TLC)	> 99%								
TLC conditions	n-butanol/acetic acid/H ₂ O 4/2/2 ethylacetate/pyridine/acetic acid/H ₂ O 60/60/12/36 chloroform/methanol/acetic acid 32% 5/3/1 plate: silicagel 60 F ₂₅₄ detected by: UV, ninhydrin, chlorine-tolidine								
Enantiomer content (GC)	> 99.7% L-allo-Isoleucine < 0.1% L-Isoleucine < 0.1% D-Isoleucine < 0.1% D-allo-Leucine								
Assay (elemental analysis)	97.9% (Nth 10.68 %, Nfd 10.45 %)								

Latest update: December 12, 2017

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