

Analytical Data Sheet

Lot number **1068706**
not for drug use

Catalog number **E-2025.0500**
Product number **4030756.0500**
Product **H- Ile- OH**
Molecular formula $C_6H_{13}NO_2$
Relative molecular mass 131.18

Tests	Results								
Appearance	white powder								
Appearance of solution	clear, colorless solution (10 mg/mL in 80% acetic acid)								
Identification (elemental analysis)	<table> <thead> <tr> <th>Theory</th> <th>Found</th> </tr> </thead> <tbody> <tr> <td>C = 54.9%</td> <td>C = 54.7%</td> </tr> <tr> <td>H = 10.0%</td> <td>H = 9.9%</td> </tr> <tr> <td>N = 10.7%</td> <td>N = 10.7%</td> </tr> </tbody> </table>	Theory	Found	C = 54.9%	C = 54.7%	H = 10.0%	H = 9.9%	N = 10.7%	N = 10.7%
Theory	Found								
C = 54.9%	C = 54.7%								
H = 10.0%	H = 9.9%								
N = 10.7%	N = 10.7%								
Identification (TLC)	complies with authentic material								
Specific optical rotation	$[\alpha]_D^{24} + 42.5^\circ$ (1% in 80% acetic acid)								
Purity (TLC)	$\geq 99\%$								
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% H-D-Ile-OH 0.1% H-allo-Ile-OH < 0.1% H-D-allo-Ile-OH								
Other amino acids (GC)	< 0.3%								
Assay (elemental analysis)	100.2% (Nth 10.68%, Nfd 10.70%)								
Water content (KF volumetric)	0.1%								

Latest update: November 15, 2016

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