

Analytical Data Sheet

Lot number

1045521

not for drug use

Catalog Number	E-2070.0500
Product number	4001907.0500
Product	H- Leu- OEt · HCl
Molecular formula	C₈H₁₇NO₂ · HCl
Relative molecular mass	195.69

Tests	Results								
Appearance	white powder								
Appearance of solution	clear, colorless solution (50 mg/mL in ethanol)								
Identification (elemental analysis)	<table> <tr> <td>Theory</td> <td>Found</td> </tr> <tr> <td>C = 49.1%</td> <td>C = 48.8%</td> </tr> <tr> <td>H = 9.3%</td> <td>H = 9.3%</td> </tr> <tr> <td>N = 7.2%</td> <td>N = 7.1%</td> </tr> </table>	Theory	Found	C = 49.1%	C = 48.8%	H = 9.3%	H = 9.3%	N = 7.2%	N = 7.1%
Theory	Found								
C = 49.1%	C = 48.8%								
H = 9.3%	H = 9.3%								
N = 7.2%	N = 7.1%								
Identification (TLC)	complies with authentic material								
Melting point	138 °C								
Specific optical rotation	$[\alpha]_D^{24} + 17.9^\circ$ (1% ethanol)								
Purity (TLC)	> 99%								
Related impurities (TLC)	< 0.1% H-Leu-OH								
TLC conditions	chloroform/methanol/acetic acid 32% 5/3/1 chloroform/methanol/acetic acid/H ₂ O 70/42/0.5/10 n-butanol/acetic acid/H ₂ O 4/2/2 plate: silicagel 60 F ₂₅₄ detected by: UV, ninhydrin, chlorine-tolidine								
Assay (elemental analysis)	99.4% (Cth 49.10%, Cfd 48.80%)								
Chloride content (titration)	18.1%								
Latest update: November 21, 2012									