

Analytical Data Sheet

Lot number **1059930**
not for drug use

Catalog number **E-2065.0025**
Product number **4001167.0025**
Product **H- Leu- OtBu · HCl**
Molecular formula **C₁₀H₂₁NO₂ · HCl**
Relative molecular mass **223.74**

Tests	Results								
Appearance	white powder								
Appearance of solution	clear, colorless solution (50 mg/mL in methanol)								
Identification (elemental analysis)	<table> <thead> <tr> <th>Theory</th> <th>Found</th> </tr> </thead> <tbody> <tr> <td>C = 53.7%</td> <td>C = 53.7%</td> </tr> <tr> <td>H = 9.9%</td> <td>H = 9.9%</td> </tr> <tr> <td>N = 6.3%</td> <td>N = 6.2%</td> </tr> </tbody> </table> <p>calc. x 1 HCl (15.85% Cl)</p>	Theory	Found	C = 53.7%	C = 53.7%	H = 9.9%	H = 9.9%	N = 6.3%	N = 6.2%
Theory	Found								
C = 53.7%	C = 53.7%								
H = 9.9%	H = 9.9%								
N = 6.3%	N = 6.2%								
Identification (TLC)	complies with authentic material								
Melting point	162.5 °C								
Purity (TLC)	> 99%								
Related impurities (TLC)	< 0.1% H-Leu-OH								
TLC conditions	n-butanol/acetic acid/H ₂ O 4/2/2 ethylacetate/pyridine/acetic acid/H ₂ O 60/20/6/11 ethylacetate/pyridine/acetic acid/H ₂ O 6/5/1/3 plate: silicagel 60 F ₂₅₄ detected by: UV, ninhydrin, TMB								
Enantiomer content (GC)	< 0.1% D-Enantiomer								
Other amino acids (GC)	none detected (< 0.3 %)								
Assay (elemental analysis)	100.0% (Cth 53.68%, Ctd 53.69%)								
Water content (KF volumetric)	0.1%								
Chloride content (titration)	98.4% of theoretical								