

Analytical Data Sheet

Lot number **1066294**
not for drug use

Catalog number **E-2065.0005**
Product number **4001167.0005**
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)	<p>Theory Found</p> <p>C = 53.7% C = 53.7%</p> <p>H = 9.9% H = 9.9%</p> <p>N = 6.3% N = 6.2%</p> <p>calc. x 1 HCl (15.85% Cl)</p>
Identification (TLC)	complies with authentic material
Melting point	162.5 °C
Purity (TLC)	> 99%
Related impurities (TLC)	< 0.1% H-Leu-OH
TLC conditions	<p>n-butanol/acetic acid/H₂O 4/2/2</p> <p>ethylacetate/pyridine/acetic acid/H₂O 60/20/6/11</p> <p>ethylacetate/pyridine/acetic acid/H₂O 6/5/1/3</p> <p>plate: silicagel 60 F₂₅₄</p> <p>detected by: UV, ninhydrin, TMB</p>
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