

Analytical Data Sheet

Lot number **1000038999**
not for drug use

Product H-Leu-chloromethylketone · HCl

Product number **4001621.1000**

Molecular formula C₇H₁₄ClNO · HCl

Relative molecular mass 200.11

Tests	Results
Appearance	beige powder
Appearance of solution	clear, beige solution (50 mg/mL in methanol)
Identification (ESI-MS)	m = 163.1u (monoisotopic mass)
Identification (TLC)	complies with authentic material
Specific optical rotation	$[\alpha]_{\text{D}}^{24} = +90.3^{\circ}$ (1% in methanol) (immediately)
Related impurities (TLC)	< 0.2% Boc-Leu-OH < 0.2% H-Leu-OH
TLC conditions	chloroform/methanol/acetic acid/ H ₂ O 60/45/14/6 chloroform/methanol/acetic acid 77.5/15/7.5 plate: silicagel 60 F ₂₅₄ detected by: UV, ninhydrin, TMB
Assay (elemental analysis)	97.5% (Cth 42.02%, Cfd 40.95%)
Chloride content (titration)	18.6%

Latest update: September 25, 2020

Analytical Data Sheet
Lot number **1000038999**