

Analytical Data Sheet

Lot number **1062139**
not for drug use

Catalog number **E-1900.0001**
Product number **4000156.0001**
Product **H- Glu(OtBu) - OtBu · HCl**
Molecular formula $C_{13}H_{25}NO_4 \cdot HCl$
Relative molecular mass 295.81

Tests	Results
Appearance	white powder
Appearance of solution	clear, colorless solution (50 mg/mL in methanol)
Identification (TLC)	complies with authentic material
Melting point	119 °C
Specific optical rotation	$[\alpha]_D^{24} = +22.4^\circ$ (2% in ethanol)
Purity (TLC)	> 99%
Related impurities (TLC)	< 0.1% H-Glu-OtBu * HCl < 0.1% H-Glu(OtBu)-OH
TLC conditions	chloroform/methanol/acetic acid 32% 5/3/1 ethylacetate/pyridine/acetic acid/H ₂ O 60/20/6/11 chloroform/methanol/toluene/H ₂ O 8/8/8/1 plate: silicagel 60 F ₂₅₄ detected by: UV, ninhydrin, TMB
Enantiomer content (GC)	< 0.1% D-enantiomer
Assay (elemental analysis)	99.9% (Cth 52.79%, Cfd 52.71%)
Water content (KF volumetric)	0.2%
Chloride content (titration)	100.5% of theoretical (Cl ⁻ th = 11.98%, Cl ⁻ fd = 12.04%)

Latest update: October 14, 2015

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