

Analytical Data Sheet

Lot number **1069286**
not for drug use

Catalog number **E-1625.0005**
Product number **4004448.0005**
Product **H- Orn(Boc) - OH**
Molecular formula $C_{10}H_{20}N_2O_4$
Relative molecular mass 232.28

Tests	Results
Appearance	white powder
Appearance of solution	clear, colorless solution (20 mg/mL in acetic acid 80%)
Identification (TLC)	complies with authentic material
Specific optical rotation	$[\alpha]_D^{24} = +6.1^\circ$ (1 % in 2N NH_4OH)
Purity (TLC)	> 99%
Related impurities (TLC)	< 0.1% H-Orn-OH < 0.1% Boc-Orn-OH < 0.1% Boc-Orn(Boc)-OH
TLC conditions	n-butanol/acetic acid/ H_2O 4/2/2 chloroform/methanol/acetic acid 32% 5/3/1 ethylacetate/pyridine/acetic acid/ H_2O 60/30/9/16.5 plate: silicagel 60 F ₂₅₄ detected by: UV, ninhydrin, TMB
Enantiomer content (GC)	0.1% D-enantiomer
Other amino acids (GC)	< 0.3%
Assay (elemental analysis)	97.6% (Nth 12.06%, Nfd 11.77%)
Water content (KF volumetric)	0.1%
Chloride content (titration)	1.1% ($AgNO_3$)

Latest update: January 03, 2017

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