

## Analytical Data Sheet

Lot number **1060154**  
not for drug use

Catalog number **E-1625.0025**  
Product number **4004448.0025**  
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 <sub>254</sub> 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: June 29, 2015

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