

## Analytical Data Sheet

Lot number **1067434**  
not for drug use

Retest date July 2017  
Catalog number **A-2865.0025**  
Product number **4014396.0025**  
Product **Boc- Orn- OH**  
Molecular formula  $C_{10}H_{20}N_2O_4$   
Relative molecular mass 232.28

Tests	Results
Appearance	off-white powder
Appearance of solution	clear, slightly colored solution (50 mg/mL in acetic acid 80%)
Identification (elemental analysis)	Theory Found C = 51.7% C = 51.6% H = 8.7% H = 8.6% N = 12.1% N = 12.1%
Identification (TLC)	complies with authentic material
Melting point	212 °C
Purity (TLC)	> 99%
Related impurities (TLC)	< 0.1% H-Orn-OH < 0.1% H-Orn(Boc)-OH
TLC conditions	n-butanol/acetic acid/H <sub>2</sub> O 4/2/2 ethylacetate/pyridine/acetic acid/H <sub>2</sub> O 6/4/1/3 chloroform/methanol/acetic acid 32% 5/3/1 acetonitrile/H <sub>2</sub> O 7/3 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)	100.2% (Nth 12.06%, Nfd 12.09%)
Water content (KF volumetric)	0.1%