

Analytical Data Sheet

Lot number **1000028194**
not for drug use

Catalog number **A-2865.0005**
Product number **4014396.0005**
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 | chloroform/methanol/acetic acid 32% 5/3/1 ethylacetate/pyridine/acetic acid/H ₂ O 6/4/1/3 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) | 100.0% (Nth 12.06%, Nfd 12.06%) |
| Water content (KF volumetric) | 0.1% |

Latest update: February 06, 2020

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