

Analytical Data Sheet

Lot number **1000022138**
not for drug use

Catalog number **C-2305.0005**
Product number **4000190.0005**
Product **Z- Orn- OH**
Molecular formula $C_{13}H_{18}N_2O_4$
Relative molecular mass 266.30

Tests	Results								
Appearance	white powder								
Appearance of solution	clear, colorless solution (50 mg/mL in acetic acid 80%)								
Identification (elemental analysis)	<table> <thead> <tr> <th>Theory</th> <th>Found</th> </tr> </thead> <tbody> <tr> <td>C = 58.6%</td> <td>C = 58.6%</td> </tr> <tr> <td>H = 6.8%</td> <td>H = 6.7%</td> </tr> <tr> <td>N = 10.5%</td> <td>N = 10.5%</td> </tr> </tbody> </table>	Theory	Found	C = 58.6%	C = 58.6%	H = 6.8%	H = 6.7%	N = 10.5%	N = 10.5%
Theory	Found								
C = 58.6%	C = 58.6%								
H = 6.8%	H = 6.7%								
N = 10.5%	N = 10.5%								
Identification (TLC)	complies with authentic material								
Chloride precipitation test	negative								
Purity (HPLC)	99.9%								
Related impurities (HPLC)	not det.Z-Orn(Boc)-OH								
Purity (TLC)	> 99%								
Related impurities (TLC)	< 0.2% H-Orn(Z)-OH < 0.2% Z-Orn(Z)-OH								
TLC conditions	chloroform/methanol/acetic acid 32% 5/3/1 acetonitrile/H ₂ O 7/3 ethylacetate/pyridine/acetic acid/H ₂ O 6/5/1/3 plate: silicagel 60 F ₂₅₄ detected by: UV, ninhydrin, chlorine-tolidine								
Enantiomer content (GC)	< 0.1% Z-D-Orn-OH								
Assay (elemental analysis)	100.4% (Nth 10.52%, Nfd 10.56%)								
Water content (KF volumetric)	0.1%								