

Analytical Data Sheet

Lot number **1073875**
not for drug use

Catalog number **F-1965.0250**
Product number **4031133.0250**
Product **H- Orn- OH · HCl**
Molecular formula **C₅H₁₂N₂O₂ · HCl**
Relative molecular mass **168.62**

Tests	Results
Appearance	white powder
Appearance of solution	clear, colorless solution (50 mg/mL in 1N HCl)
Identification (TLC)	complies with authentic material
Specific optical rotation	$[\alpha]_D^{24} = +21.4^\circ$ (5% in 1N HCl)
Purity (TLC)	> 99%
TLC conditions	n-butanol/acetic acid/H ₂ O 4/2/2 isopropanol/ammonia conc. 1/1 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)	100.8% (Nth 16.61%, Nfd 16.74%)
Chloride content (titration)	99.9% of theoretical (Cl ⁻ th = 21.02%)

Latest update: October 31, 2017

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