

Analytical Data Sheet

Lot number **1000006148**
not for drug use

Catalog number **E-2785.0050**
Product number **4014123.0050**
Product **H- Lys- OEt · 2 HCl**
Molecular formula **C₈H₁₈N₂O₂ · 2 HCl**
Relative molecular mass **247.16**

Tests	Results
Appearance	white powder
Appearance of solution	clear, colorless solution (50 mg/mL in ethanol)
Identification (TLC)	complies with authentic material
Specific optical rotation	$[\alpha]_D^{24} = + 10.9^\circ$ (2% in water)
Purity (TLC)	> 99%
Related impurities (TLC)	≤ 0.1% H-Lys-OH * HCl
TLC conditions	ethylacetate/pyridine/acetic acid/H ₂ O 60/60/12/36 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 (chiral chromatography)	< 0.1% D-enantiomer
Assay (elemental analysis)	99.6% (Nth 11.33%, Nfd 11.28%)
Water content (KF volumetric)	0.4%
Chloride content (titration)	99.2% of theoretical (Cl ⁻ th = 28.69%)

Latest update: September 13, 2018

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