

Analytical Data Sheet

Lot number	1000034169 not for drug use
Product	H-Lys-OH · HCl
Product number	4030835.0500
Molecular formula	C ₆ H ₁₄ N ₂ O ₂ · HCl
Relative molecular mass	182.65

Tests	Results
Appearance	white powder
Identification (elemental analysis)	Theory Found C = 39.5% C = 39.3% H = 8.3% H = 8.5 % N = 15.3% N = 15.2%
Specific optical rotation	$[\alpha]_{\text{D}}^{24} = +20.2^{\circ}$ (5% 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)	0.2% D-enantiomer
Other amino acids (GC)	< 0.3%
Assay (elemental analysis)	100.1% (N _{th} 15.34%, N _{fd} 15.36%)
Chloride content (titration)	19.4% (AgNO ₃)

Latest update: July 15, 2020

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