

Analytical Data Sheet

Lot number **1000019330**
not for drug use

Catalog number **E-1755.0100**
Product number **4030461.0100**
Product **H- Cys- OH · HCl · H₂O**
Molecular formula **C₃H₇NO₂S · HCl · H₂O**
Relative molecular mass **175.64**

Tests	Results
Appearance	white powder
Appearance of solution	clear, colorless solution (50 mg/mL in water)
Identification (ESI-MS)	m = 121.2u (average mass)
Identification (TLC)	Rf value in agreement with authentic material
Purity (TLC)	> 99%
Related impurities (TLC)	≤ 0.1% (H-Cys-OH) ₂ ≤ 0.2% each single unspecified
TLC conditions	chloroform/methanol/acetic acid 32% 70/30/10 acetonitril/0.1% TFA in water 80:20 plate: silicagel 60 F254 detected by: ninhydrin
Other amino acids (GC)	not det: each single ≤ 0.3% (LOD)
Enantiomer content (chiral chromatography)	< 0.1% D-enantiomer
Assay (elemental analysis)	99.4% (Nth 7.97%, Nfd 7.92%)

Latest update: July 25, 2019

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