

## Analytical Data Sheet

Lot number **1063059**  
not for drug use

Catalog number **E-1755.0100**  
Product number **4030461.0100**  
Product **H- Cys- OH · HCl · H<sub>2</sub>O**  
Molecular formula **C<sub>3</sub>H<sub>7</sub>NO<sub>2</sub>S · HCl · H<sub>2</sub>O**  
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)       | complied with authentic material   |
| Purity (TLC)               | ≥ 99%  |
| Related impurities (TLC)   | < 0.1% (H-Cys-OH) <sub>2</sub><br>≤ 0.2% any single unspecified  |
| TLC conditions             | chloroform/methanol/acetic acid 32% 7/3/2<br>acetonitrile/0.1% TFA in water 80/20<br>plate: RP-8<br>Plate: silicagel 60 F <sub>254</sub><br>detected by: UV, ninhydrin |
| Enantiomer content (GC)    | < 0.1% D-enantiomer  |
| Other amino acids (GC)     | ≤ 0.3% each single (not det.)  |
| Assay (elemental analysis) | 100.2% (Nth 7.97%, Nfd 7.99%)  |

Latest update: December 11, 2015

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