

# Analytical Data Sheet

Lot number

**1016406**

not for drug use

<b>Catalog Number</b>	<b>E-1755.0250</b>
<b>Product number</b>	<b>4030461.0250</b>
<b>Product</b>	<b>H- Cys- OH · HCl · H<sub>2</sub>O</b>
<b>Molecular formula</b>	<b>C<sub>3</sub>H<sub>7</sub>NO<sub>2</sub>S · HCl · H<sub>2</sub>O</b>
<b>Relative molecular mass</b>	<b>175.64</b>

Tests	Results								
<b>Appearance</b>	white fine crystalline powder								
<b>Appearance of solution</b>	clear, colorless solution (50 mg/ml in 1N HCl)								
<b>Identification (elemental analysis)</b>	<table border="0"> <tr> <td>Theory</td> <td>Found</td> </tr> <tr> <td>C = 20.5 %</td> <td>C = 20.6 %</td> </tr> <tr> <td>H = 5.7 %</td> <td>H = 5.5 %</td> </tr> <tr> <td>N = 8.0 %</td> <td>N = 8.0 %</td> </tr> </table>	Theory	Found	C = 20.5 %	C = 20.6 %	H = 5.7 %	H = 5.5 %	N = 8.0 %	N = 8.0 %
Theory	Found								
C = 20.5 %	C = 20.6 %								
H = 5.7 %	H = 5.5 %								
N = 8.0 %	N = 8.0 %								
<b>Identification (TLC)</b>	conforms with authentic material								
<b>Specific optical rotation</b>	[α] <sub>D</sub> <sup>24</sup> = + 5.97 ° (5 % in 1N HCl)								
<b>Purity (TLC)</b>	> 99%								
<b>TLC conditions</b>	n-butanol/acetic acid/H <sub>2</sub> O 4/2/2 isopropanol/ammonia conc. 1/1 methanol/chloroform/ammonia 17% 2/2/1 plate: silicagel 60 F <sub>254</sub> detected by: UV, ninhydrin								
<b>Enantiomer content (GC)</b>	0.2% H-D-Cys-OH · HCl · H <sub>2</sub> O								
<b>Other amino acids (GC)</b>	none detected (< 0.3 %)								
<b>Assay (elemental analysis)</b>	100.4% (Cth 20.52 %, Cfd 20.6 %)								
Latest update: October 24, 2008	<b>Analytical Data Sheet</b> Lot number <b>1016406</b>								