

Analytical Data Sheet

Lot number

1025731

not for drug use

Catalog Number	E-1760.0500
Product number	4030444.0500
Product	(H- Cys- OH)₂ (Disulfide bond)
Molecular formula	C₆H₁₂N₂O₄S₂
Relative molecular mass	240.30

Tests	Results								
Appearance	white powder								
Appearance of solution	clear, colorless solution (50 mg/mL in 1N HCl)								
Identification (elemental analysis)	<table border="0"> <tr> <td>Theory</td> <td>Found</td> </tr> <tr> <td>C = 30.0%</td> <td>C = 30.2%</td> </tr> <tr> <td>H = 5.0%</td> <td>H = 4.8%</td> </tr> <tr> <td>N = 11.7%</td> <td>N = 11.7%</td> </tr> </table>	Theory	Found	C = 30.0%	C = 30.2%	H = 5.0%	H = 4.8%	N = 11.7%	N = 11.7%
Theory	Found								
C = 30.0%	C = 30.2%								
H = 5.0%	H = 4.8%								
N = 11.7%	N = 11.7%								
Identification (TLC)	complies with authentic material								
Specific optical rotation	[α] _D ²⁴ = - 217.9° (1 % in 1N HCl)								
Purity (TLC)	> 99%								
TLC conditions	isopropanol/ammonia conc. 1/1 methanol/chloroform/ammonia 17% 2/2/1 plate: silicagel 60 F ₂₅₄ detected by: UV, ninhydrin, TMB								
Enantiomer content (GC)	< 0.2% D-Isomer								
Other amino acids (GC)	none detected (< 0.3 %)								
Assay (elemental analysis)	100.3% (Nth 11.66%, Nfd 11.70%)								
Latest update: August 04, 2009	<p style="text-align: right;">Analytical Data Sheet Lot number 1025731</p>								