

Analytical Data Sheet

Lot number **1000025229**
not for drug use

Catalog number **E-2710.0005**
Product number **4030538.0005**
Product **H- Cys(StBu) - OH**
Molecular formula **C₇H₁₅NO₂S₂**
Relative molecular mass **209.33**

Tests	Results								
Appearance	white powder								
Appearance of solution	clear, colorless solution (50 mg/mL in acetic acid 80%)								
Identification (elemental analysis)	<table> <thead> <tr> <th>Theory</th> <th>Found</th> </tr> </thead> <tbody> <tr> <td>C = 38.5 %</td> <td>C = 38.6 %</td> </tr> <tr> <td>H = 7.4 %</td> <td>H = 7.0 %</td> </tr> <tr> <td>N = 6.4 %</td> <td>N = 6.4 %</td> </tr> </tbody> </table> <p>calc. as x 0.5 H₂O (4.13 %)</p>	Theory	Found	C = 38.5 %	C = 38.6 %	H = 7.4 %	H = 7.0 %	N = 6.4 %	N = 6.4 %
Theory	Found								
C = 38.5 %	C = 38.6 %								
H = 7.4 %	H = 7.0 %								
N = 6.4 %	N = 6.4 %								
Identification (TLC)	complies with authentic material								
Specific optical rotation	$[\alpha]_D^{24} = -84.4^\circ$ (1 % in 1N HCl)								
Purity (TLC)	> 99%								
TLC conditions	chloroform/methanol/acetic acid/H ₂ O 60/45/14/6 chloroform/methanol/acetic acid 32% 5/3/1 chloroform/acetic acid 95/5 plate: silicagel 60 F ₂₅₄ detected by: UV, ninhydrin, chlorine-tolidine								
Enantiomer content (GC)	0.5% D-Enantiomer								
Assay (elemental analysis)	96.2% (Cth 40.16%, Cfd 38.63%)								
Water content (KF volumetric)	4.4%								

Latest update: November 25, 2019

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