

# Analytical Data Sheet

Lot number

## 1029448

not for drug use

<b>Catalog Number</b>	E-2940.0005
<b>Product number</b>	4006901.0005
<b>Product</b>	Trt- Cys(Trt) - OH
<b>Molecular formula</b>	C <sub>41</sub> H <sub>35</sub> NO <sub>2</sub> S
<b>Relative molecular mass</b>	605.80

Tests	Results								
<b>Appearance</b>	off-white powder								
<b>Appearance of solution</b>	clear, colorless solution (50 mg/ml in methanol)								
<b>Identification (elemental analysis)</b>	<table border="0"> <tr> <td>Theory</td> <td>Found</td> </tr> <tr> <td>C = 81.4 %</td> <td>C = 81.1 %</td> </tr> <tr> <td>H = 6.2 %</td> <td>H = 6.3 %</td> </tr> <tr> <td>N = 2.2 %</td> <td>N = 2.2 %</td> </tr> </table> <p>calculated as 0.26 hexane (3.57 %)</p>	Theory	Found	C = 81.4 %	C = 81.1 %	H = 6.2 %	H = 6.3 %	N = 2.2 %	N = 2.2 %
Theory	Found								
C = 81.4 %	C = 81.1 %								
H = 6.2 %	H = 6.3 %								
N = 2.2 %	N = 2.2 %								
<b>Identification (TLC)</b>	complies with authentic material								
<b>Melting point</b>	125 °C								
<b>Specific optical rotation</b>	$[\alpha]_D^{24} = +68.9^\circ$ (1 % in methanol)								
<b>Purity (HPLC)</b>	98.9% (TMAH, pH 7.5)								
<b>Purity (TLC)</b>	equal to reference standard								
<b>TLC conditions</b>	<p>methanol/H<sub>2</sub>O 9/1            plate: RP-8 F<sub>254</sub>S            detected by: UV, ninhydrin, chlorine-tolidine</p> <p>chloroform/ethylacetate/acetic acid 50/50/2            benzene/dioxane/acetic acid 95/25/4            chloroform/methanol 95/15            plate: silicagel 60 F<sub>254</sub>            detected by: UV, ninhydrin, chlorine-tolidine</p>								
<b>Assay (elemental analysis)</b>	92.2% (Nth 2.31%, Nfd 2.13%)								
<b>Water content (KF volumetric)</b>	0.3%								
<b>Residual organic solvents (GC)</b>	3.6% hexane								

Latest update: March 01, 2010

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