

## Analytical Data Sheet

Lot number **1000001212**  
not for drug use

**Catalog number** N-1195.0100  
**Product number** 4010438.0100  
**Product** **DL- Thiorphan**  
 ((RS) - 2- Benzyl- 3- mercaptopropionyl) - Gly- OH  
**Molecular formula** C<sub>12</sub>H<sub>15</sub>NO<sub>3</sub>S  
**Relative molecular mass** 253.32

Tests	Results								
<b>Appearance</b>	white powder								
<b>Appearance of solution</b>	clear, colorless solution (50 mg/ml in MeOH:CHCl <sub>3</sub> 1:1)								
<b>Identification (elemental analysis)</b>	<table border="0"> <tr> <td>Theory</td> <td>Found</td> </tr> <tr> <td>C = 55.1 %</td> <td>C = 55.4 %</td> </tr> <tr> <td>H = 6.1 %</td> <td>H = 5.8 %</td> </tr> <tr> <td>N = 5.4 %</td> <td>N = 5.3 %</td> </tr> </table> <p>calc. x 0.45 H<sub>2</sub>O (3.1 %)</p>	Theory	Found	C = 55.1 %	C = 55.4 %	H = 6.1 %	H = 5.8 %	N = 5.4 %	N = 5.3 %
Theory	Found								
C = 55.1 %	C = 55.4 %								
H = 6.1 %	H = 5.8 %								
N = 5.4 %	N = 5.3 %								
<b>Identification (TLC)</b>	complies with authentic material								
<b>Melting point</b>	138 °C								
<b>Purity (TLC)</b>	> 99%								
<b>TLC conditions</b>	chloroform/methanol/acetic acid/H <sub>2</sub> O 70/42/0.5/10 chloroform/methanol/acetic acid 77.5/15/7.5 chloroform/methanol/acetic acid(98-100%)/H <sub>2</sub> O 45/13/1/2 plate: silicagel 60 F <sub>254</sub> detected by: UV, chlorine-tolidine, Nitroprussid								
<b>Assay (elemental analysis)</b>	97.3% (Cth 56.90 %, Cfd 55.35 %)								
<b>Water content (KF volumetric)</b>	4.0%								

Latest update: June 19, 2018

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