

# Analytical Data Sheet

Lot number

## 1022202

not for drug use

<b>Catalog Number</b>	C-1950.0001
<b>Product number</b>	4002867.0001
<b>Product</b>	Z- D- His- OH
<b>Molecular formula</b>	C <sub>14</sub> H <sub>15</sub> N <sub>3</sub> O <sub>4</sub>
<b>Relative molecular mass</b>	289.29

Tests	Results								
<b>Appearance</b>	white powder								
<b>Appearance of solution</b>	clear, colorless solution (50 mg/ml in methanol 50 %)								
<b>Identification (elemental analysis)</b>	<table border="0"> <tr> <td>Theory</td> <td>Found</td> </tr> <tr> <td>C = 58.13 %</td> <td>C = 58.02 %</td> </tr> <tr> <td>H = 5.23 %</td> <td>H = 5.06 %</td> </tr> <tr> <td>N = 14.53 %</td> <td>N = 14.71 %</td> </tr> </table>	Theory	Found	C = 58.13 %	C = 58.02 %	H = 5.23 %	H = 5.06 %	N = 14.53 %	N = 14.71 %
Theory	Found								
C = 58.13 %	C = 58.02 %								
H = 5.23 %	H = 5.06 %								
N = 14.53 %	N = 14.71 %								
<b>Identification (TLC)</b>	complies with authentic material								
<b>Melting point</b>	164 °C								
<b>Specific optical rotation</b>	$[\alpha]_D^{24} = -7.1^\circ$ (2% in methanol 50 %)								
<b>Purity (TLC)</b>	> 99%								
<b>Related impurities (TLC)</b>	< 0.1% Z-D-His(Z)-OH								
<b>TLC conditions</b>	n-butanol/acetic acid/H <sub>2</sub> O 4/2/2 chloroform/methanol/acetic acid 32% 5/3/1 chloroform/methanol/acetic acid/H <sub>2</sub> O 60/45/14/6 plate: silicagel 60 F <sub>254</sub> detected by: UV, ninhydrin, chlorine-tolidine, Pauly								
Latest update: February 12, 2009									