

## Analytical Data Sheet

Lot number **1068292**  
not for drug use

Catalog number **C-3605.0005**  
Product number **4018546.0005**  
Product **Z- D- Orn- OH**  
Molecular formula **C<sub>13</sub>H<sub>18</sub>N<sub>2</sub>O<sub>4</sub>**  
Relative molecular mass **266.30**

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 = 58.6 %</td> <td>C = 58.4 %</td> </tr> <tr> <td>H = 6.8 %</td> <td>H = 6.9 %</td> </tr> <tr> <td>N = 10.5 %</td> <td>N = 10.5 %</td> </tr> </tbody> </table>	Theory	Found	C = 58.6 %	C = 58.4 %	H = 6.8 %	H = 6.9 %	N = 10.5 %	N = 10.5 %
Theory	Found								
C = 58.6 %	C = 58.4 %								
H = 6.8 %	H = 6.9 %								
N = 10.5 %	N = 10.5 %								
Identification (TLC)	complies with authentic material								
Melting point	205 °C								
Specific optical rotation	$[\alpha]_D^{24} = + 11.2^\circ$ (0.5 % in 5N HCl)								
Purity (TLC)	> 99%								
TLC conditions	acetonitrile/H <sub>2</sub> O 7/3 chloroform/methanol/acetic acid/H <sub>2</sub> O 60/45/14/6 ethylacetate/pyridine/acetic acid/H <sub>2</sub> O 60/60/12/36 plate: silicagel 60 F <sub>254</sub> detected by: UV, ninhydrin, chlorine-tolidine								
Assay (titration)	99.6% (HClO <sub>4</sub> )								