

# Analytical Data Sheet

Lot number

## 1051850

not for drug use

Catalog Number	C-1295.0025
Product number	4009614.0025
Product	Z- D- Arg- OH
Molecular formula	C <sub>14</sub> H <sub>20</sub> N <sub>4</sub> O <sub>4</sub>
Relative molecular mass	308.34

Tests	Results								
Appearance	white powder								
Appearance of solution	clear, colorless solution (50 mg/ml in AcOH 80 %)								
Identification (elemental analysis)	<table border="0"> <tr> <td>Theory</td> <td>Found</td> </tr> <tr> <td>C = 54.03 %</td> <td>C = 54.11 %</td> </tr> <tr> <td>H = 6.58 %</td> <td>H = 6.53 %</td> </tr> <tr> <td>N = 18.00 %</td> <td>N = 18.12 %</td> </tr> </table> <p>calc. as 0.16 H<sub>2</sub>O (0.93 %)</p>	Theory	Found	C = 54.03 %	C = 54.11 %	H = 6.58 %	H = 6.53 %	N = 18.00 %	N = 18.12 %
Theory	Found								
C = 54.03 %	C = 54.11 %								
H = 6.58 %	H = 6.53 %								
N = 18.00 %	N = 18.12 %								
Identification (TLC)	conforms with authentic material								
Melting point	175.3 °C								
Specific optical rotation	[α] <sub>D</sub> <sup>24</sup> = + 10.9 ° (1 % in 0.2 N HCl)								
Purity (TLC)	> 99%								
TLC conditions	ethylacetate/pyridine/acetic acid/H <sub>2</sub> O 6/5/1/3 chloroform/methanol/acetic acid 32% 5/3/1 plate: silicagel 60 F <sub>254</sub> detected by: UV, ninhydrin, chlorine-tolidine								
Assay (elemental analysis)	99.7% (Nth 18.17 %, Nfd 18.12 %)								
Water content (KF volumetric)	1.1%								
Latest update: January 22, 2014									