

## Analytical Data Sheet

Lot number **1057939**  
not for drug use

Catalog number **C-3700.0001**  
Product number **4018569.0001**  
Product **Z- N- Me- Val- OH**  
Molecular formula **C<sub>14</sub>H<sub>19</sub>NO<sub>4</sub>**  
Relative molecular mass **265.31**

Tests	Results								
Appearance	white powder								
Appearance of solution	clear, colorless solution (50 mg/ml in methanol)								
Identification (elemental analysis)	<table><thead><tr><th>Theory</th><th>Found</th></tr></thead><tbody><tr><td>C = 63.4 %</td><td>C = 63.3 %</td></tr><tr><td>H = 7.2 %</td><td>H = 7.6 %</td></tr><tr><td>N = 5.3 %</td><td>N = 5.3 %</td></tr></tbody></table>	Theory	Found	C = 63.4 %	C = 63.3 %	H = 7.2 %	H = 7.6 %	N = 5.3 %	N = 5.3 %
Theory	Found								
C = 63.4 %	C = 63.3 %								
H = 7.2 %	H = 7.6 %								
N = 5.3 %	N = 5.3 %								
Identification (TLC)	complies with authentic material								
Melting point	69 °C								
Specific optical rotation	$[\alpha]_D^{24} = -86.1^\circ$ (1 % in methanol)								
Purity (TLC)	> 99%								
Related impurities (TLC)	< 0.2% Z-Val-OH								
TLC conditions	toluene/dioxane/acetic acid 95/25/4 chloroform/ethylacetate/acetic acid 50/50/2 chloroform/methanol/toluene/H <sub>2</sub> O 8/8/8/1 plate: silicagel 60 F <sub>254</sub> detected by: UV, ninhydrin, chlorine-tolidine, ammoniummolybdate								
Assay (elemental analysis)	100.1% (Cth 63.38%, Cfd 63.42%)								