

## Analytical Data Sheet

Lot number **1000013213**  
not for drug use

Catalog number **M-1305.0250**  
Product number **4000599.0250**  
Product **Z- Phe- His- Leu- OH**  
Molecular formula  $C_{29}H_{35}N_5O_6$   
Relative molecular mass 549.63

Tests	Results								
Appearance	white powder								
Appearance of solution	clear, colorless solution (5 mg/ml in 80% acetic acid)								
Identification (elemental analysis)	<table><thead><tr><th>Theory</th><th>Found</th></tr></thead><tbody><tr><td>C = 62.35 %</td><td>C = 62.55 %</td></tr><tr><td>H = 6.50 %</td><td>H = 6.46 %</td></tr><tr><td>N = 12.54 %</td><td>N = 12.54 %</td></tr></tbody></table> <p>calc. as 0.5 H<sub>2</sub>O (1.6 %)</p>	Theory	Found	C = 62.35 %	C = 62.55 %	H = 6.50 %	H = 6.46 %	N = 12.54 %	N = 12.54 %
Theory	Found								
C = 62.35 %	C = 62.55 %								
H = 6.50 %	H = 6.46 %								
N = 12.54 %	N = 12.54 %								
Identification (TLC)	conforms with authentic material								
Melting point	222 ° C								
Specific optical rotation	$[\alpha]_D^{24} = -6.4^\circ$ (0.5 % in acetic acid)								
Purity (TLC)	> 98%								
TLC conditions	ethylacetate/pyridine/acetic acid/H <sub>2</sub> O 60/20/6/11 chloroform/methanol/benzene/H <sub>2</sub> O 8/8/8/1 chloroform/methanol/acetic acid/H <sub>2</sub> O 45/13/1/2 plate: silicagel 60 F <sub>254</sub> detected by: UV, ninhydrin, chlorine-tolidine, Pauly								
Water content (KF volumetric)	1.6%								

Latest update: March 06, 2019

**Analytical Data Sheet**  
Lot number **1000013213**