

Analytical Data Sheet

Lot number **1069926**
not for drug use

Catalog number **C-2730.0100**
Product number **4001149.0100**
Product **Z- Tyr- OH**
Molecular formula **C₁₇H₁₇NO₅**
Relative molecular mass **315.33**

Tests	Results								
Appearance	off-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 = 58.1 %</td> <td>C = 58.1 %</td> </tr> <tr> <td>H = 6.0 %</td> <td>H = 6.0 %</td> </tr> <tr> <td>N = 4.0 %</td> <td>N = 4.2 %</td> </tr> </tbody> </table> <p>calc. x 2.0 H₂O (10.4 %)</p>	Theory	Found	C = 58.1 %	C = 58.1 %	H = 6.0 %	H = 6.0 %	N = 4.0 %	N = 4.2 %
Theory	Found								
C = 58.1 %	C = 58.1 %								
H = 6.0 %	H = 6.0 %								
N = 4.0 %	N = 4.2 %								
Identification (TLC)	complies with authentic material								
Melting point	63 °C								
Specific optical rotation	$[\alpha]_D^{24} = + 8.6^\circ$ (2 % in acetic acid)								
Purity (TLC)	≥ 98.5%								
Related impurities (TLC)	< 0.2% Z-Tyr-Tyr-OH < 0.2% Z-Tyr(Z)-OH								
TLC conditions	ethylacetate/pyridine/acetic acid/H ₂ O 60/30/9/16.5 chloroform/methanol/acetic acid 85/10/5 chloroform/methanol/acetic acid/H ₂ O 45/13/1/2 plate: silicagel 60 F ₂₅₄ detected by: UV, ninhydrin, TMB								
Assay (elemental analysis)	89.4% (Cth 64.75%, Cfd 57.91%)								
Water content (KF volumetric)	10.4%								

Latest update: February 03, 2017

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