

Analytical Data Sheet

Lot number

1035011

not for drug use

Catalog Number	G-3455.0005
Product number	4001110.0005
Product	H- Tyr- Phe- OH
Molecular formula	C ₁₈ H ₂₀ N ₂ O ₄
Relative molecular mass	328.37

Tests	Results								
Appearance	white powder								
Appearance of solution	clear, colorless solution (25 mg/ml in 80% AcOH)								
Identification (elemental analysis)	<table border="0"> <tr> <td>Theory</td> <td>Found</td> </tr> <tr> <td>C = 62.1 %</td> <td>C = 62.5 %</td> </tr> <tr> <td>H = 6.4 %</td> <td>H = 6.3 %</td> </tr> <tr> <td>N = 8.1 %</td> <td>N = 8.0 %</td> </tr> </table> <p>calc. as x 1.1 H₂O (5.9%)</p>	Theory	Found	C = 62.1 %	C = 62.5 %	H = 6.4 %	H = 6.3 %	N = 8.1 %	N = 8.0 %
Theory	Found								
C = 62.1 %	C = 62.5 %								
H = 6.4 %	H = 6.3 %								
N = 8.1 %	N = 8.0 %								
Identification (TLC)	complies with authentic material								
Specific optical rotation	$[\alpha]_D^{24} = +19.1^\circ$ (0.3 % in 1N HCl)								
Purity (TLC)	> 98%								
TLC conditions	n-butanol/acetic acid/H ₂ O 4/2/2 chloroform/methanol/acetic acid 32% 5/3/1 ethylacetate/pyridine/acetic acid/H ₂ O 6/5/1/3 plate: silicagel 60 F ₂₅₄ detected by: UV, ninhydrin, TMB								
Assay (elemental analysis)	94.0 % (Nth 8.53 %, Nfd 8.02 %)								
Water content (KF volumetric)	6.1 %								
Latest update: February 21, 2011									