



INDOFINE Chemical Company, Inc.

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CERTIFICATE OF ANALYSIS

Catalog Number	04-107
Lot number	1024781
Product	Ac- Tyr- NH_2
Molecular formula	$\text{C}_{11}\text{H}_{14}\text{N}_2\text{O}_3$
Relative molecular mass	222.24

Tests	Results								
Appearance	white powder								
Appearance of solution	clear, colorless solution (50 mg/ml in AcOH 80 %)								
Identification (elemental analysis)	<table><tr><td>Theory</td><td>Found</td></tr><tr><td>C = 59.45 %</td><td>C = 59.01 %</td></tr><tr><td>H = 6.35 %</td><td>H = 6.39 %</td></tr><tr><td>N = 12.60 %</td><td>N = 12.55 %</td></tr></table>	Theory	Found	C = 59.45 %	C = 59.01 %	H = 6.35 %	H = 6.39 %	N = 12.60 %	N = 12.55 %
Theory	Found								
C = 59.45 %	C = 59.01 %								
H = 6.35 %	H = 6.39 %								
N = 12.60 %	N = 12.55 %								
Identification (TLC)	conforms with authentic material								
Melting point	226 °C								
Specific optical rotation	$[\alpha]_D^{24} = +49.0^\circ$ (1 % in water)								
Purity (TLC)	> 99%								
TLC conditions	chloroform/methanol 8/2 chloroform/methanol/acetic acid 32% 5/3/1 chloroform/methanol/acetic acid/ H_2O 70/42/0.5/10 plate: silicagel 60 F ₂₅₄ detected by: UV, ninhydrin, chlorine-tolidine								