

Analytical Data Sheet

Lot number	1000034324 not for drug use
Product	Z-Phe-Leu-OH
Product number	4000487.0005
Molecular formula	C ₂₃ H ₂₈ N ₂ O ₅
Relative molecular mass	412.49

Tests	Results
Appearance	white powder
Appearance of solution	clear, colorless solution (50 mg/mL in methanol)
Identification (TLC)	complies with authentic material
Specific optical rotation	$[\alpha]_D^{24} = -16.7^\circ$ (1% in methanol)
Purity (HPLC)	99.9% (TFA)
Related impurities (HPLC)	< 0.1% Z-Phe-OH
Purity (TLC)	> 99%
TLC conditions	chloroform/methanol/toluene/H ₂ O 8/8/8/1 toluene/dioxane/acetic acid 95/25/4 chloroform/ethylacetate/acetic acid 50/50/2 plate: silicagel 60 F ₂₅₄ detected by: UV, ninhydrin, TMB
Assay (elemental analysis)	99.9% (Cth 66.97%, Cfd 66.89%)
Assay (titration)	98.7% (TBAH)
Water content (KF volumetric)	0.2%

Latest update: July 09, 2020

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