

Analytical Data Sheet

Lot number

1040753

not for drug use

Catalog Number	E-2260.0100
Product number	4002447.0100
Product	H- Phe- OEt · HCl
Molecular formula	C₁₁H₁₅NO₂ · HCl
Relative molecular mass	229.71

Tests	Results
Appearance	white powder
Appearance of solution	clear, colorless solution (50 mg/mL in ethanol)
Identification (TLC)	complies with authentic material
Melting point	157 °C
Specific optical rotation	$[\alpha]_D^{24} = + 32.8^\circ$ (1% in ethanol)
Purity (TLC)	> 99%
Related impurities (TLC)	< 0.1% H-Phe-OH
TLC conditions	n-butanol/acetic acid/H ₂ O 4/2/2 chloroform/methanol/acetic acid/H ₂ O 85/13/0.5/1.5 ethylacetate/pyridine/acetic acid/H ₂ O 60/20/6/11 plate: silicagel 60 F ₂₅₄ detected by: UV, ninhydrin, chlorine-tolidine
Enantiomer content (GC)	< 0.1% D-Enantiomer
Assay (elemental analysis)	100.2% (C _{th} 57.52%, C _{fd} 57.61%)
Chloride content (titration)	101.7% of theoretical (Cl _{th} = 15.43%)

Latest update: January 25, 2012

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