

Analytical Data Sheet

Lot number **1073837**
not for drug use

Catalog number **L-1150.0050**
Product number **4002044.0050**
Product **Bz- Phe- Val- Arg- pNA · HCl**
Molecular formula **C₃₃H₄₀N₈O₆ · HCl**
Relative molecular mass **681.19**

Tests	Results
Appearance	pale yellow powder
Appearance of solution	clear, slightly yellow solution (50 mg/mL in methanol)
Identification (ESI-MS)	m= 644.7u (average mass)
Identification (TLC)	complies with authentic material
Specific optical rotation	$[\alpha]_D^{24} = -59.1^\circ$ (1% in methanol)
Purity (HPLC)	99.7% (TFA)
Purity (TLC)	≥ 99%
Related impurities (TLC)	< 0.1% p-nitroanilide (pNA)
TLC conditions	chloroform/methanol/acetic acid/H ₂ O 45/13/1/2 isopropanol/ammonia conc. 1/1 plate: silicagel 60 F ₂₅₄ detected by: UV, ninhydrin, TMB
Assay (elemental analysis)	96.3% (Nth 16.45%, Nfd 15.84%)
Chloride content (titration)	5.1% (AgNO ₃)

Latest update: October 13, 2017

Analytical Data Sheet
Lot number **1073837**