

Analytical Data Sheet

Lot number

1002837

not for drug use

Catalog Number	G-2450.1000
Product number	4003049.1000
Product	Kyotorphin H- Tyr- Arg- OH acetate salt
Molecular formula	C ₁₅ H ₂₃ N ₅ O ₄
Relative molecular mass	337.38

Tests	Results
Appearance	white powder
Appearance of solution	clear, colorless solution (50 mg/ml in MeOH)
Identification (TLC)	conforms with authentic material
Specific optical rotation	$[\alpha]_D^{24} = +22.5^\circ$ (1 % in H ₂ O)
Purity (TLC)	> 98%
TLC conditions	n-butanol/acetic acid/H ₂ O 4/2/2 isopropanol/ammonia conc. 1/1 chloroform/methanol/acetic acid/H ₂ O 60/45/14/6 plate: silicagel 60 F ₂₅₄ detected by: UV, ninhydrin, chlorine-tolidine
Assay (elemental analysis)	79.3% (Nth 20.76 %, Nfd 16.47 %)
Water content (KF volumetric)	2.8% (drifting titration)
Latest update: October 25, 2008	Analytical Data Sheet Lot number 1002837