

Analytical Data Sheet

Lot number **1062169**
not for drug use

Catalog number **G-2080.0025**
Product number **4002438.0025**
Product **β- Endorphin (30- 31) (human)**
H- Gly- Glu- OH
Molecular formula **C₇H₁₂N₂O₅**
Relative molecular mass **204.18**

Tests	Results
Appearance	white powder
Appearance of solution	clear, colorless solution (50 mg/mL in 80% acetic acid)
Identification (TLC)	complies with authentic material
Specific optical rotation	$[\alpha]_D^{24} = -5.9^\circ$ (2% in water)
Purity (TLC)	> 99%
TLC conditions	n-butanol/acetic acid/H ₂ O 4/2/2 isopropanol/ammonia conc. 1/1 methanol/chloroform/ammonia 17% 2/2/1 plate: silicagel 60 F ₂₅₄ detected by: UV, ninhydrin, TMB
Assay (elemental analysis)	95.7% (Nth 13.72%, Nfd 13.13%)
Water content (KF volumetric)	4.7%

Latest update: November 10, 2015

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