

## Analytical Data Sheet

Lot number **1000008395**  
not for drug use

Catalog number **G-3430.0005**  
Product number **4002549.0005**  
Product **H- Tyr- Leu- OH**  
Molecular formula  $C_{15}H_{22}N_2O_4$   
Relative molecular mass 294.35

Tests	Results
Appearance	white powder
Appearance of solution	clear, colorless solution (50mg/mL in acetic acid 80%)
Identification (ESI-MS)	m = 294.3u (average mass)
Identification (TLC)	complies with authentic material
Specific optical rotation	$[\alpha]_D^{24} = + 8.1^\circ$ (3% in 0.5M hydrochlorid acid)
Purity (TLC)	> 99%
TLC conditions	n-butanol/acetic acid/H <sub>2</sub> O 4/2/2 isopropanol/ammonia conc. 1/1 methanol/chloroform/ammonia 17% 2/2/1 plate: silicagel 60 F <sub>254</sub> detected by: UV, ninhydrin, chlorine-tolidine
Assay (elemental analysis)	93.6% (Nth 9.52%, Nfd 89.08%)
Assay (titration)	94.5% (TBAH)
Water content (KF volumetric)	6.1%

Latest update: November 13, 2018

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