

# Analytical Data Sheet

Lot number **1071207**  
not for drug use

Catalog number **L-2085.0050**  
Product number **4028676.0050**  
Product **H- Lys- Ala- pNA · 2 HCl**  
Molecular formula **C<sub>15</sub>H<sub>23</sub>N<sub>5</sub>O<sub>4</sub> · 2 HCl**  
Relative molecular mass **410.30**

Tests	Results
Appearance	pale yellowish powder
Appearance of solution	clear, pale yellow solution (50 mg/ml in methanol)
Identification (ESI-MS)	[M + H] <sup>+</sup> : m/z 338.2 u
Identification (elemental analysis)	Theory Found C = 43.54 % C = 43.14 % H = 6.39 % H = 6.15 % N = 15.87 % N = 15.76 %
Purity (HPLC)	98.4% (TFA) 98.4% (NaClO <sub>4</sub> )
Purity (TLC)	> 98%
Related impurities (TLC)	< 0.1% p-Nitroanilide
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, TMB
Water content (KF volumetric)	1.8%
Residual organic solvents (GC)	5.0% ethylacetate

Latest update: April 07, 2017

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