

## Analytical Data Sheet

Lot number **1000005347**  
not for drug use

Catalog number **L-1795.0050**  
Product number **4017695.0050**  
Product **H- Ala- Phe- Pro- pNA**  
Molecular formula  $C_{23}H_{27}N_5O_5$   
Relative molecular mass 453.50

Tests	Results								
Appearance	pale yellow powder								
Appearance of solution	clear, pale yellow solution (50 mg/ml in methanol)								
Identification (elemental analysis)	<table> <thead> <tr> <th>Theory</th> <th>Found</th> </tr> </thead> <tbody> <tr> <td>C = 60.21 %</td> <td>C = 59.96 %</td> </tr> <tr> <td>H = 6.34 %</td> <td>H = 6.10 %</td> </tr> <tr> <td>N = 14.39 %</td> <td>N = 14.54 %</td> </tr> </tbody> </table> <p>calc. as 0.3 water (1.1 %) x 0.2 ethylacetate (3.6 %) x 0.1 diisopropylether (2.1 %)</p>	Theory	Found	C = 60.21 %	C = 59.96 %	H = 6.34 %	H = 6.10 %	N = 14.39 %	N = 14.54 %
Theory	Found								
C = 60.21 %	C = 59.96 %								
H = 6.34 %	H = 6.10 %								
N = 14.39 %	N = 14.54 %								
Identification (TLC)	complies with authentic material								
Purity (HPLC)	97.8% (TFA) 97.5% (TEAP)								
Purity (TLC)	> 97%								
TLC conditions	chloroform/methanol/benzene/H <sub>2</sub> O 8/8/8/1 chloroform/methanol/acetic acid 85/10/5 ethylacetate/pyridine/acetic acid/H <sub>2</sub> O 60/20/6/11 plate: silicagel 60 F <sub>254</sub> detected by: UV, ninhydrin, chlorine-tolidine								
Assay (titration)	93.2% (HClO <sub>4</sub> )								
Water content (KF volumetric)	1.0%								
Residual organic solvents (GC)	3.1% ethylacetate 1.9% diisopropylether								

Latest update: September 12, 2018

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