

## Analytical Data Sheet

Lot number **1073712**  
not for drug use

Catalog number **L-1130.1000**  
Product number **4000792.1000**  
Product **Bz- Arg- pNA · HCl**  
Molecular formula  $C_{19}H_{22}N_6O_4 \cdot HCl$   
Relative molecular mass 434.88

Tests	Results
Appearance	yellowish powder
Appearance of solution	clear, slightly yellow solution (50 mg/mL in methanol)
Identification (TLC)	complies with authentic material
Specific optical rotation	$[\alpha]_D^{24} + 14.1^\circ$ (1% in methanol)
Purity (TLC)	> 99%
Related impurities (TLC)	< 0.1% pNA (p-Nitroaniline)
TLC conditions	n-butanol/acetic acid/H <sub>2</sub> O 4/2/2 ethylacetate/pyridine/acetic acid/H <sub>2</sub> O 60/20/6/11 chloroform/methanol/acetic acid 32% 5/3/1 plate: silicagel 60 F <sub>254</sub> detected by: UV, ninhydrin, TMB
Enantiomer content (GC)	0.10% D-enantiomer
Assay (elemental analysis)	100.1% (Nth 19.32%, Nfd 19.34%)
Water content (KF volumetric)	0.2%
Chloride content (titration)	8.4%

Latest update: October 23, 2017

**Analytical Data Sheet**  
Lot number **1073712**