

## Analytical Data Sheet

Lot number **1071620**  
not for drug use

Catalog number **K-1085.0050**  
Product number **4000098.0050**  
Product **H- Arg- Arg- βNA · 3 HCl**  
Molecular formula **C<sub>22</sub>H<sub>33</sub>N<sub>9</sub>O<sub>2</sub> · 3 HCl**  
Relative molecular mass **564.95**

Tests	Results								
Appearance	white powder								
Appearance of solution	clear, colorless solution (50 mg/ml in MeOH)								
Identification (elemental analysis)	<table><thead><tr><th>Theory</th><th>Found</th></tr></thead><tbody><tr><td>C = 45.47 %</td><td>C = 45.39 %</td></tr><tr><td>H = 6.56 %</td><td>H = 6.40 %</td></tr><tr><td>N = 21.69 %</td><td>N = 21.82 %</td></tr></tbody></table> <p>calc. as MW x 3 HCl (19.36 %) x 0.9 H<sub>2</sub>O (2.8 %)</p>	Theory	Found	C = 45.47 %	C = 45.39 %	H = 6.56 %	H = 6.40 %	N = 21.69 %	N = 21.82 %
Theory	Found								
C = 45.47 %	C = 45.39 %								
H = 6.56 %	H = 6.40 %								
N = 21.69 %	N = 21.82 %								
Identification (TLC)	complies with authentic material								
Purity (TLC)	> 99%								
TLC conditions	ethylacetate/pyridine/acetic acid/H <sub>2</sub> O 60/60/12/36 n-butanol/acetic acid/H <sub>2</sub> O 4/2/2 chloroform/methanol/acetic acid 32% 5/3/1 plate: silicagel 60 F <sub>254</sub> detected by: UV, ninhydrin, TMB								
Water content (KF coulometric)	2.7%								
Chloride content (titration)	18.3% (AgNO <sub>3</sub> )								

Latest update: May 11, 2017

**Analytical Data Sheet**  
Lot number **1071620**