

## Analytical Data Sheet

Lot number **1000013890**  
not for drug use

Retest date February 2022  
 Catalog number **H-1155.0025**  
 Product number **4008997.0025**  
 Product **H- Arg- Gly- Asp- Ser- OH**  
 Molecular formula  $C_{15}H_{27}N_7O_8$   
 Relative molecular mass 433.42

Tests	Results								
Appearance	white powder								
Appearance of solution	clear, colorless solution (50 mg/mL in 50% acetic acid)								
Identification (ESI-MS)	m = 433.4u (average mass)								
Identification (elemental analysis)	<table> <thead> <tr> <th>Theory</th> <th>Found</th> </tr> </thead> <tbody> <tr> <td>C = 39.1 %</td> <td>C = 39.2 %</td> </tr> <tr> <td>H = 6.5 %</td> <td>H = 6.1 %</td> </tr> <tr> <td>N = 21.3 %</td> <td>N = 21.1 %</td> </tr> </tbody> </table> calc. x 1.5 H <sub>2</sub> O (5.9 %)	Theory	Found	C = 39.1 %	C = 39.2 %	H = 6.5 %	H = 6.1 %	N = 21.3 %	N = 21.1 %
Theory	Found								
C = 39.1 %	C = 39.2 %								
H = 6.5 %	H = 6.1 %								
N = 21.3 %	N = 21.1 %								
Identification (TLC)	complies with authentic material								
Purity (HPLC)	97.6% (IP)								
Purity (TLC)	> 97%								
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, ammoniummolybdate, TMB								
Assay (elemental analysis)	91.5% (Nth 22.62%, Nfd 20.69%)								
Water content (KF volumetric)	5.9%								

Latest update: March 21, 2019

**Analytical Data Sheet**  
Lot number **1000013890**