

## Analytical Data Sheet

Lot number **1059991**  
not for drug use

Catalog number **F-1870.0100**  
Product number **4000218.0100**  
Product **H- Arg(NO<sub>2</sub>) - OH**  
Molecular formula **C<sub>6</sub>H<sub>13</sub>N<sub>5</sub>O<sub>4</sub>**  
Relative molecular mass **219.20**

Tests	Results								
Appearance	white powder								
Appearance of solution	clear, colorless solution (50 mg/mL in 80% formic acid)								
Identification (elemental analysis)	<table> <tr> <td>Theory</td> <td>Found</td> </tr> <tr> <td>C = 32.8%</td> <td>C = 33.1%</td> </tr> <tr> <td>H = 6.0%</td> <td>H = 6.0%</td> </tr> <tr> <td>N = 32.0%</td> <td>N = 31.9%</td> </tr> </table>	Theory	Found	C = 32.8%	C = 33.1%	H = 6.0%	H = 6.0%	N = 32.0%	N = 31.9%
Theory	Found								
C = 32.8%	C = 33.1%								
H = 6.0%	H = 6.0%								
N = 32.0%	N = 31.9%								
Identification (TLC)	complies with authentic material								
Specific optical rotation	$[\alpha]_D^{24} = +24.1^\circ$ (4% in 2N HCl)								
Purity (TLC)	> 99%								
Related impurities (TLC)	< 0.1% H-Arg-OH								
TLC conditions	n-butanol/acetic acid/H <sub>2</sub> O 4/2/2 isopropanol/ammonia conc. 1/1 ethylacetate/pyridine/acetic acid/H <sub>2</sub> O 60/60/12/36 plate: silicagel 60 F <sub>254</sub> detected by: UV, ninhydrin, TMB								
Enantiomer content (GC)	< 0.1% D-enantiomer								
Other amino acids (GC)	< 0.2%								
Water content (KF volumetric)	0.1%								

Latest update: June 17, 2015

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