

# Analytical Data Sheet

Lot number

## 1046891

not for drug use

<b>Catalog Number</b>	F-1870.0025
<b>Product number</b>	4000218.0025
<b>Product</b>	H- Arg(NO <sub>2</sub> ) - OH
<b>Molecular formula</b>	C <sub>6</sub> H <sub>13</sub> N <sub>5</sub> O <sub>4</sub>
<b>Relative molecular mass</b>	219.20

Tests	Results								
<b>Appearance</b>	off-white powder								
<b>Appearance of solution</b>	clear, slightly yellow solution (50 mg/mL in formic acid 80%)								
<b>Identification (elemental analysis)</b>	<table border="0"> <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 = 5.7%</td> </tr> <tr> <td>N = 31.9%</td> <td>N = 32.3%</td> </tr> </table> calc. x 0.012 H <sub>2</sub> O (0.1%)	Theory	Found	C = 32.8%	C = 33.1%	H = 6.0%	H = 5.7%	N = 31.9%	N = 32.3%
Theory	Found								
C = 32.8%	C = 33.1%								
H = 6.0%	H = 5.7%								
N = 31.9%	N = 32.3%								
<b>Identification (TLC)</b>	complies with authentic material								
<b>Specific optical rotation</b>	$[\alpha]_D^{24} = +23.1^\circ$ (4% in 2N HCl)								
<b>Purity (TLC)</b>	> 99%								
<b>Related impurities (TLC)</b>	< 0.1% H-Arg-OH								
<b>TLC conditions</b>	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								
<b>Enantiomer content (GC)</b>	0.2% D-Enantiomer								
<b>Other amino acids (GC)</b>	< 0.3%								
<b>Water content (KF volumetric)</b>	0.1%								
Latest update: February 19, 2013									