

# Analytical Data Sheet

Lot number

## 1049161

not for drug use

<b>Catalog Number</b>	<b>A-1205.0025</b>
<b>Product number</b>	<b>4009523.0025</b>
<b>Product</b>	<b>Boc- Arg- OH · HCl · H<sub>2</sub>O</b>
<b>Molecular formula</b>	<b>C<sub>11</sub>H<sub>22</sub>N<sub>4</sub>O<sub>4</sub> · HCl · H<sub>2</sub>O</b>
<b>Relative molecular mass</b>	<b>328.80</b>

Tests	Results								
<b>Appearance</b>	white powder								
<b>Appearance of solution</b>	clear, colorless solution (50 mg/mL in methanol)								
<b>Identification (elemental analysis)</b>	<table border="0"> <tr> <td>Theory</td> <td>Found</td> </tr> <tr> <td>C = 40.2%</td> <td>C = 40.6%</td> </tr> <tr> <td>H = 7.7%</td> <td>H = 7.5%</td> </tr> <tr> <td>N = 17.0%</td> <td>N = 17.0%</td> </tr> </table> <p>calc. 1 HCl x 1 H<sub>2</sub>O</p>	Theory	Found	C = 40.2%	C = 40.6%	H = 7.7%	H = 7.5%	N = 17.0%	N = 17.0%
Theory	Found								
C = 40.2%	C = 40.6%								
H = 7.7%	H = 7.5%								
N = 17.0%	N = 17.0%								
<b>Identification (TLC)</b>	complies with authentic material								
<b>Specific optical rotation</b>	$[\alpha]_D^{24} = -8.1^\circ$ (2% in water)								
<b>Purity (TLC)</b>	> 99%								
<b>TLC conditions</b>	n-butanol/acetic acid/H <sub>2</sub> O 4/2/2 ethylacetate/pyridine/acetic acid/H <sub>2</sub> O 60/30/9/16.5 chloroform/methanol/acetic acid 32% 5/3/1 plate: silicagel 60 F <sub>254</sub> detected by: UV, ninhydrin, TMB								
<b>Assay (elemental analysis)</b>	100.1% (Nth 17.04%, Nfd 17.05%)								
<b>Water content (KF volumetric)</b>	5.7%								
<b>Chloride content (titration)</b>	10.8%								
Latest update: July 17, 2013									