

## Analytical Data Sheet

Lot number **1067598**  
not for drug use

Catalog number **A-1205.0100**  
Product number **4009523.0100**  
Product **Boc- Arg- OH · HCl · H<sub>2</sub>O**  
Molecular formula **C<sub>11</sub>H<sub>22</sub>N<sub>4</sub>O<sub>4</sub> · HCl · H<sub>2</sub>O**  
Relative molecular mass **328.80**

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

Latest update: September 01, 2016

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