

## Analytical Data Sheet

Lot number **1064481**  
not for drug use

Catalog number **B-2785.0005**  
Product number **4028841.0005**  
Product **Fmoc- Arg(NO<sub>2</sub>) - OH**  
Molecular formula **C<sub>21</sub>H<sub>23</sub>N<sub>5</sub>O<sub>6</sub>**  
Relative molecular mass **441.45**

Tests	Results								
Appearance	white powder								
Appearance of solution	clear, colorless solution (50 mg/mL in 80% acetic acid) clear, colorless solution (0.5 mmol/mL in DMF)								
Identification (elemental analysis)	<table> <thead> <tr> <th>Theory</th> <th>Found</th> </tr> </thead> <tbody> <tr> <td>C = 57.1 %</td> <td>C = 57.2 %</td> </tr> <tr> <td>H = 5.3 %</td> <td>H = 5.5 %</td> </tr> <tr> <td>N = 15.9 %</td> <td>N = 16.3 %</td> </tr> </tbody> </table>	Theory	Found	C = 57.1 %	C = 57.2 %	H = 5.3 %	H = 5.5 %	N = 15.9 %	N = 16.3 %
Theory	Found								
C = 57.1 %	C = 57.2 %								
H = 5.3 %	H = 5.5 %								
N = 15.9 %	N = 16.3 %								
Identification (TLC)	complies with authentic material								
Melting point	155 °C								
Purity (HPLC)	99.0% (TFA)								
Purity (TLC)	> 98%								
Related impurities (TLC)	< 0.1% H-Arg(NO <sub>2</sub> )- OH								
TLC conditions	chloroform/methanol/toluene/H <sub>2</sub> O 8/8/8/1 chloroform/methanol/acetic acid 32% 5/3/1 ethylacetate/pyridine/acetic acid/H <sub>2</sub> O 60/20/6/11 plate: silicagel 60 F <sub>254</sub> detected by: UV, ninhydrin, TMB								
Enantiomer content (GC)	< 0.1% D-enantiomer								
Assay (titration)	94.7% (TBAH)								
Water content (KF volumetric)	1.1%								
Acetic acid content (IC)	0.0026%								