

# Analytical Data Sheet

Lot number

## 1030400

not for drug use

<b>Catalog Number</b>	<b>Q-2420.0001</b>
<b>Product number</b>	<b>4027909.0001</b>
<b>Product</b>	<b>N- 1- Fmoc- 1, 4- diaminobutane · HCl</b>
<b>Molecular formula</b>	$C_{19}H_{22}N_2O_2 \cdot HCl$
<b>Relative molecular mass</b>	346.86

Tests	Results								
<b>Appearance</b>	white powder								
<b>Appearance of solution</b>	clear, colorless solution (50 mg/ml in 50 % dioxane)								
<b>Identification (elemental analysis)</b>	<table border="0"> <tr> <td>Theory</td> <td>Found</td> </tr> <tr> <td>C = 65.8 %</td> <td>C = 65.8 %</td> </tr> <tr> <td>H = 6.7 %</td> <td>H = 6.5 %</td> </tr> <tr> <td>N = 8.1 %</td> <td>N = 8.2 %</td> </tr> </table> <p>calc. x 1 HCl (10.5 %, Cl<sup>-</sup> 10.2 %)</p>	Theory	Found	C = 65.8 %	C = 65.8 %	H = 6.7 %	H = 6.5 %	N = 8.1 %	N = 8.2 %
Theory	Found								
C = 65.8 %	C = 65.8 %								
H = 6.7 %	H = 6.5 %								
N = 8.1 %	N = 8.2 %								
<b>Identification (TLC)</b>	complies with authentic material								
<b>Melting point</b>	128 °C								
<b>Purity (HPLC)</b>	99.9% (TFA, 260 nm)								
<b>Purity (TLC)</b>	> 99%								
<b>TLC conditions</b>	n-butanol/acetic acid/H <sub>2</sub> O 4/2/2 chloroform/methanol/acetic acid 32% 5/3/1 ethylacetate/pyridine/acetic acid/H <sub>2</sub> O 60/30/9/16.5 plate: silicagel 60 F <sub>254</sub> detected by: UV, ninhydrin, chlorine-tolidine								
<b>Assay (elemental analysis)</b>	89.5% (Cth 73.52 %, Cfd 65.78 %)								
<b>Chloride content (titration)</b>	10.1% (AgNO <sub>3</sub> )								
Latest update: April 20, 2010									