

# Analytical Data Sheet

Lot number

## 1032244

not for drug use

<b>Catalog Number</b>	F-3245.0001
<b>Product number</b>	4025460.0001
<b>Product</b>	H- D- Gln- NH <sub>2</sub> · HCl
<b>Molecular formula</b>	C <sub>5</sub> H <sub>11</sub> N <sub>3</sub> O <sub>2</sub> · HCl
<b>Relative molecular mass</b>	181.62

Tests	Results								
<b>Appearance</b>	white product								
<b>Appearance of solution</b>	clear, colorless solution (25 mg/ml in 80% AcOH)								
<b>Identification (elemental analysis)</b>	<table border="0"> <tr> <td>Theory</td> <td>Found</td> </tr> <tr> <td>C = 33.07 %</td> <td>C = 33.15 %</td> </tr> <tr> <td>H = 6.66 %</td> <td>H = 6.67 %</td> </tr> <tr> <td>N = 23.14 %</td> <td>N = 23.12 %</td> </tr> </table> <p>calc. as HCl (19.5 %)</p>	Theory	Found	C = 33.07 %	C = 33.15 %	H = 6.66 %	H = 6.67 %	N = 23.14 %	N = 23.12 %
Theory	Found								
C = 33.07 %	C = 33.15 %								
H = 6.66 %	H = 6.67 %								
N = 23.14 %	N = 23.12 %								
<b>Identification (TLC)</b>	complies with authentic material								
<b>Melting point</b>	191 °C								
<b>Specific optical rotation</b>	$[\alpha]_D^{24} = -20.6^\circ$ (1 % 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 5/5/1/3 isopropanol/ammonia conc. 1/1 plate: silicagel 60 F <sub>254</sub> detected by: ninhydrin, chlorine-tolidine								
<b>Water content (KF volumetric)</b>	0.3%								
<b>Chloride content (titration)</b>	19.9%								
Latest update: August 19, 2010									