

# Analytical Data Sheet

Lot number

**1040841**

not for drug use

<b>Catalog Number</b>	<b>E-3390.0001</b>
<b>Product number</b>	<b>4027405.0001</b>
<b>Product</b>	<b>H- D- Lys- NH<sub>2</sub> · 2 HCl</b>
<b>Molecular formula</b>	<b>C<sub>6</sub>H<sub>15</sub>N<sub>3</sub>O · 2 HCl</b>
<b>Relative molecular mass</b>	<b>218.13</b>

Tests	Results								
<b>Appearance</b>	white product (no visible impurities)								
<b>Appearance of solution</b>	clear, colorless solution (50 mg/ml in methanol 50 %)								
<b>Identification (elemental analysis)</b>	<table border="0"> <tr> <td>Theory</td> <td>Found</td> </tr> <tr> <td>C = 33.04 %</td> <td>C = 32.63 %</td> </tr> <tr> <td>H = 7.86 %</td> <td>H = 7.79 %</td> </tr> <tr> <td>N = 19.26 %</td> <td>N = 19.78 %</td> </tr> </table> <p>calc. as 2 HCl (32.5 %)</p>	Theory	Found	C = 33.04 %	C = 32.63 %	H = 7.86 %	H = 7.79 %	N = 19.26 %	N = 19.78 %
Theory	Found								
C = 33.04 %	C = 32.63 %								
H = 7.86 %	H = 7.79 %								
N = 19.26 %	N = 19.78 %								
<b>Identification (TLC)</b>	complies with authentic material								
<b>Specific optical rotation</b>	$[\alpha]_D^{24} = -17.9^\circ$ (1 % in water)								
<b>Purity (TLC)</b>	> 99%								
<b>TLC conditions</b>	n-butanol/acetic acid/H <sub>2</sub> O 4/2/2 methanol/chloroform/ammonia 17% 2/2/1 isopropanol/ammonia conc. 1/1 plate: silicagel 60 F <sub>254</sub> detected by: ninhydrin, chlorine-tolidine								
<b>Chloride content (titration)</b>	32.6%								
Latest update: February 03, 2012									