

# Analytical Data Sheet

Lot number

## 1039261

not for drug use

<b>Catalog Number</b>	<b>F-1975.0100</b>
<b>Product number</b>	<b>4031149.0100</b>
<b>Product</b>	<b>H- D- Phe- OH</b>
<b>Molecular formula</b>	<b>C<sub>9</sub>H<sub>11</sub>NO<sub>2</sub></b>
<b>Relative molecular mass</b>	<b>165.19</b>

Tests	Results								
<b>Appearance</b>	white powder								
<b>Appearance of solution</b>	clear, colorless solution (50 mg/ml in 1 N HCl)								
<b>Identification (elemental analysis)</b>	<table border="0"> <tr> <td>Theory</td> <td>Found</td> </tr> <tr> <td>C = 65.4 %</td> <td>C = 65.2 %</td> </tr> <tr> <td>H = 6.7 %</td> <td>H = 6.9 %</td> </tr> <tr> <td>N = 8.5 %</td> <td>N = 8.4 %</td> </tr> </table>	Theory	Found	C = 65.4 %	C = 65.2 %	H = 6.7 %	H = 6.9 %	N = 8.5 %	N = 8.4 %
Theory	Found								
C = 65.4 %	C = 65.2 %								
H = 6.7 %	H = 6.9 %								
N = 8.5 %	N = 8.4 %								
<b>Identification (TLC)</b>	complies with authentic material								
<b>Specific optical rotation</b>	$[\alpha]_D^{24} = + 8.6^\circ$ (5 % in 1 N HCl)								
<b>Purity (TLC)</b>	> 99%								
<b>Related impurities (TLC)</b>	< 0.1% H-Tyr-OH								
<b>TLC conditions</b>	n-butanol/acetic acid/H <sub>2</sub> O 4/2/2 isopropanol/ammonia conc. 1/1 methanol/chloroform/ammonia 17% 2/2/1 plate: silicagel 60 F <sub>254</sub> detected by: UV, ninhydrin, TMB								
<b>Enantiomer content (GC)</b>	< 0.1% L-Enantiomer								
<b>Other amino acids (GC)</b>	< 0.3%								
<b>Assay (elemental analysis)</b>	98.8% (Nth 8.48%, Nfd 8.38%)								
Latest update: October 19, 2011									