

# Analytical Data Sheet

Lot number

## 1037786

not for drug use

<b>Catalog Number</b>	F-2165.0100
<b>Product number</b>	4026808.0100
<b>Product</b>	H- D- Tyr- OH
<b>Molecular formula</b>	C <sub>9</sub> H <sub>11</sub> NO <sub>3</sub>
<b>Relative molecular mass</b>	181.19

Tests	Results								
<b>Appearance</b>	white powder								
<b>Appearance of solution</b>	clear, colorless solution (50 mg/mL in 1N HCl)								
<b>Identification (elemental analysis)</b>	<table border="0"> <tr> <td>Theory</td> <td>Found</td> </tr> <tr> <td>C = 59.7%</td> <td>C = 59.5%</td> </tr> <tr> <td>H = 6.1%</td> <td>H = 6.2%</td> </tr> <tr> <td>N = 7.7%</td> <td>N = 7.7%</td> </tr> </table>	Theory	Found	C = 59.7%	C = 59.5%	H = 6.1%	H = 6.2%	N = 7.7%	N = 7.7%
Theory	Found								
C = 59.7%	C = 59.5%								
H = 6.1%	H = 6.2%								
N = 7.7%	N = 7.7%								
<b>Identification (TLC)</b>	complies with authentic material								
<b>Specific optical rotation</b>	$[\alpha]_D^{24} = +10.61^\circ$ (5% 1N HCl)								
<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 60/60/12/36 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>	< 0.1% H-D-Phe-OH < 0.2% any other								
<b>Assay (elemental analysis)</b>	99.8% (Cth 59.54%, Cfd 59.66%)								
<b>Water content (KF coulometric)</b>	< 0.1%								
Latest update: July 18, 2011									