

# Analytical Data Sheet

Lot number

## 1007118

not for drug use

<b>Catalog Number</b>	F-1895.0025
<b>Product number</b>	4000199.0025
<b>Product</b>	H- p- Nitro- Phe- OH
<b>Molecular formula</b>	C <sub>9</sub> H <sub>10</sub> N <sub>2</sub> O <sub>4</sub>
<b>Relative molecular mass</b>	210.19

Tests	Results								
<b>Appearance</b>	yellowish powder								
<b>Appearance of solution</b>	clear, colorless solution (25 mg/ml in AcOH 80 %)								
<b>Identification (elemental analysis)</b>	<table border="0"> <tr> <td>Theory</td> <td>Found</td> </tr> <tr> <td>C = 47.6 %</td> <td>C = 47.8 %</td> </tr> <tr> <td>H = 5.3 %</td> <td>H = 5.2 %</td> </tr> <tr> <td>N = 12.3 %</td> <td>N = 12.3 %</td> </tr> </table> <p>calc. as 0.95 H<sub>2</sub>O (7.93 %)</p>	Theory	Found	C = 47.6 %	C = 47.8 %	H = 5.3 %	H = 5.2 %	N = 12.3 %	N = 12.3 %
Theory	Found								
C = 47.6 %	C = 47.8 %								
H = 5.3 %	H = 5.2 %								
N = 12.3 %	N = 12.3 %								
<b>Identification (TLC)</b>	complies with authentic material								
<b>Specific optical rotation</b>	[α] <sub>D</sub> <sup>24</sup> = + 7.8 ° (3 % in 1M hydrochloric acid)								
<b>Purity (HPLC)</b>	≥ 99.9% TEAP								
<b>Related impurities (HPLC)</b>	≤ 0.05% H-Phe-OH								
<b>Purity (TLC)</b>	> 99%								
<b>TLC conditions</b>	n-butanol/acetic acid/H <sub>2</sub> O 4/2/2 acetonitrile/H <sub>2</sub> O 7/3 chloroform/methanol/acetic acid 32% 5/3/1 plate: silicagel 60 F <sub>254</sub> detected by: UV, ninhydrin, chlorine-tolidine								
<b>Enantiomer content (GC)</b>	< 0.1% H-p-Nitro-D-Phe-OH < 0.1% H-m-Nitro-Phe-OH								
<b>Other amino acids (GC)</b>	none detected (< 0.3 %)								
<b>Assay (elemental analysis)</b>	92.2% (Nth 13.32 %, Nfd 12.28 %)								
<b>Water content (KF volumetric)</b>	8.0%								

Latest update: October 24, 2008

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