

# Analytical Data Sheet

Lot number

## 1047372

not for drug use

<b>Catalog Number</b>	<b>E-1925.0005</b>
<b>Product number</b>	<b>4001230.0005</b>
<b>Product</b>	<b>H- Gln- p- nitrobenzyl ester · HBr</b>
<b>Molecular formula</b>	$C_{12}H_{15}N_3O_5 \cdot HBr$
<b>Relative molecular mass</b>	362.18

Tests	Results								
<b>Appearance</b>	white powder								
<b>Appearance of solution</b>	clear, colorless solution (25 mg/ml in methanol 50 %)								
<b>Identification (elemental analysis)</b>	<table border="0"> <tr> <td>Theory</td> <td>Found</td> </tr> <tr> <td>C = 39.8 %</td> <td>C = 40.2 %</td> </tr> <tr> <td>H = 4.5 %</td> <td>H = 4.4 %</td> </tr> <tr> <td>N = 11.6 %</td> <td>N = 11.7 %</td> </tr> </table> <p>calc. as 1 HBr (22.3 %)</p>	Theory	Found	C = 39.8 %	C = 40.2 %	H = 4.5 %	H = 4.4 %	N = 11.6 %	N = 11.7 %
Theory	Found								
C = 39.8 %	C = 40.2 %								
H = 4.5 %	H = 4.4 %								
N = 11.6 %	N = 11.7 %								
<b>Identification (TLC)</b>	complies with authentic material								
<b>Melting point</b>	167 ° C								
<b>Specific optical rotation</b>	$[\alpha]_D^{24} = +10.8^\circ$ ( 2 % in dimethylformamide)								
<b>Purity (TLC)</b>	> 98%								
<b>TLC conditions</b>	ethylacetate/pyridine/acetic acid/H <sub>2</sub> O 60/30/9/16.5 n-butanol/acetic acid/H <sub>2</sub> O 4/2/2 chloroform/methanol/acetic acid 32% 5/3/1 plate: silicagel 60 F <sub>254</sub> detected by: UV, ninhydrin, chlorine-tolidine								
<b>Bromide content (titration)</b>	22.2% (AgNO <sub>3</sub> )								

Latest update: March 18, 2013

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