

# Analytical Data Sheet

Lot number

## 1003974

not for drug use

<b>Catalog Number</b>	<b>Q-1670.0005</b>
<b>Product number</b>	<b>4013938.0005</b>
<b>Product</b>	<b>D- β- Phenyllactic acid</b>
<b>Molecular formula</b>	<b>C<sub>9</sub>H<sub>10</sub>O<sub>3</sub></b>
<b>Relative molecular mass</b>	<b>166.18</b>

Tests	Results								
<b>Appearance</b>	white powder with fine crystals								
<b>Appearance of solution</b>	clear, colorless solution (50 mg/ml in MeOH)								
<b>Identification (elemental analysis)</b>	<table border="0"> <tr> <td>Theory</td> <td>Found</td> </tr> <tr> <td>C = 65.1 %</td> <td>C = 65.0 %</td> </tr> <tr> <td>H = 6.1 %</td> <td>H = 6.1 %</td> </tr> <tr> <td>N = --- %</td> <td>N = --- %</td> </tr> </table>	Theory	Found	C = 65.1 %	C = 65.0 %	H = 6.1 %	H = 6.1 %	N = --- %	N = --- %
Theory	Found								
C = 65.1 %	C = 65.0 %								
H = 6.1 %	H = 6.1 %								
N = --- %	N = --- %								
<b>Identification (TLC)</b>	conforms with authentic material								
<b>Melting point</b>	124 °C								
<b>Specific optical rotation</b>	$[\alpha]_D^{24} = +17.7^\circ$ (1 % in MeOH)								
<b>Purity (TLC)</b>	> 99%								
<b>TLC conditions</b>	chloroform/methanol/acetic acid 77.5/15/7.5 chloroform/methanol/acetic acid 32% 5/3/1 plate: silicagel 60 F <sub>254</sub> detected by: UV, ninhydrin, chlorine-tolidine								
<b>Assay (elemental analysis)</b>	99.9 % (Cth 65.05 %, Cfd 65.01 %)								
Latest update: October 24, 2008									