

# Analytical Data Sheet

Lot number

## 1016701

not for drug use

<b>Catalog Number</b>	<b>E-1310.0025</b>
<b>Product number</b>	<b>4001744.0025</b>
<b>Product</b>	<b>H- Ala- OBzl · HCl</b>
<b>Molecular formula</b>	<b>C<sub>10</sub>H<sub>13</sub>NO<sub>2</sub> · HCl</b>
<b>Relative molecular mass</b>	<b>215.68</b>

Tests	Results								
<b>Appearance</b>	white powder								
<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 = 55.7 %</td> <td>C = 55.3 %</td> </tr> <tr> <td>H = 6.5 %</td> <td>H = 6.3 %</td> </tr> <tr> <td>N = 6.5 %</td> <td>N = 6.4 %</td> </tr> </table>	Theory	Found	C = 55.7 %	C = 55.3 %	H = 6.5 %	H = 6.3 %	N = 6.5 %	N = 6.4 %
Theory	Found								
C = 55.7 %	C = 55.3 %								
H = 6.5 %	H = 6.3 %								
N = 6.5 %	N = 6.4 %								
<b>Identification (TLC)</b>	conforms with authentic material								
<b>Melting point</b>	143 °C								
<b>Specific optical rotation</b>	$[\alpha]_D^{24} = -10.1^\circ$ (2 % in 0.1N HCl)								
<b>Purity (TLC)</b>	> 99%								
<b>Related impurities (TLC)</b>	< < 0.2% H-Ala-OH								
<b>TLC conditions</b>	n-butanol/acetic acid/H <sub>2</sub> O 4/2/2 chloroform/methanol/acetic acid(98-100%)/H <sub>2</sub> O 45/13/1/2 ethylacetate/pyridine/acetic acid/H <sub>2</sub> O 60/10/3/4 plate: silicagel 60 F <sub>254</sub> detected by: UV, ninhydrin, chlorine-tolidine								
<b>Enantiomer content (GC)</b>	0.1% H-D-Ala-OBzl · HCl								
<b>Other amino acids (GC)</b>	< 0.3%								
<b>Water content (KF volumetric)</b>	0.2%								
Latest update: October 24, 2008									