

# Analytical Data Sheet

Lot number

## 1051968

not for drug use

<b>Catalog Number</b>	A-4375.0005
<b>Product number</b>	4027978.0005
<b>Product</b>	Boc- 4- cyano- Phe- OH
<b>Molecular formula</b>	C <sub>15</sub> H <sub>18</sub> N <sub>2</sub> O <sub>4</sub>
<b>Relative molecular mass</b>	290.32

Tests	Results								
<b>Appearance</b>	fine, white powder								
<b>Appearance of solution</b>	clear, colorless solution (50 mg/ml in methanol)								
<b>Identification (elemental analysis)</b>	<table border="0"> <tr> <td>Theory</td> <td>Found</td> </tr> <tr> <td>C = 62.1 %</td> <td>C = 62.0 %</td> </tr> <tr> <td>H = 6.3 %</td> <td>H = 6.4 %</td> </tr> <tr> <td>N = 9.7 %</td> <td>N = 9.6 %</td> </tr> </table>	Theory	Found	C = 62.1 %	C = 62.0 %	H = 6.3 %	H = 6.4 %	N = 9.7 %	N = 9.6 %
Theory	Found								
C = 62.1 %	C = 62.0 %								
H = 6.3 %	H = 6.4 %								
N = 9.7 %	N = 9.6 %								
<b>Identification (TLC)</b>	complies with authentic material								
<b>Melting point</b>	156 °C								
<b>Specific optical rotation</b>	$[\alpha]_D^{24} = -35.6^\circ$ (1 % in dimethylformamide)								
<b>Purity (TLC)</b>	> 99%								
<b>TLC conditions</b>	chloroform/methanol/acetic acid 85/10/5 chloroform/methanol/toluene/H <sub>2</sub> O 8/8/8/1 toluene/dioxane/acetic acid 95/25/4 plate: silicagel 60 F <sub>254</sub> detected by: UV, ninhydrin, chlorine-tolidine								
<b>Assay (elemental analysis)</b>	99.9% (Cth 62.06 %, Cfd 61.97 %)								

Latest update: January 29, 2014

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