

Analytical Data Sheet

Lot number **1072287**
not for drug use

Catalog number **E-2235.0005**
Product number **4001235.0005**
Product **H- Phe- NH₂**
Molecular formula **C₉H₁₂N₂O**
Relative molecular mass **164.21**

Tests	Results								
Appearance	white powder								
Appearance of solution	clear, colorless solution (50 mg/mL in methanol)								
Identification (elemental analysis)	<table> <thead> <tr> <th>Theory</th> <th>Found</th> </tr> </thead> <tbody> <tr> <td>C = 65.8%</td> <td>C = 65.7%</td> </tr> <tr> <td>H = 7.4%</td> <td>H = 7.0%</td> </tr> <tr> <td>N = 17.1%</td> <td>N = 17.0%</td> </tr> </tbody> </table>	Theory	Found	C = 65.8%	C = 65.7%	H = 7.4%	H = 7.0%	N = 17.1%	N = 17.0%
Theory	Found								
C = 65.8%	C = 65.7%								
H = 7.4%	H = 7.0%								
N = 17.1%	N = 17.0%								
Identification (TLC)	complies with authentic material								
Melting point	95 °C								
Specific optical rotation	$[\alpha]_D^{24} = -22.0^\circ$ (2% in DMF)								
Purity (TLC)	> 99%								
TLC conditions	n-butanol/acetic acid/H ₂ O 4/2/2 chloroform/methanol/acetic acid 32% 5/3/1 ethylacetate/pyridine/acetic acid/H ₂ O 60/20/6/11 plate: silicagel 60 F ₂₅₄ detected by: UV, ninhydrin, TMB								
Assay (elemental analysis)	99.6% (Nth 17.06%, Nfd 17.00%)								
Water content (KF volumetric)	0.1%								

Latest update: June 22, 2017

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