

Analytical Data Sheet

Lot number **1071444**
not for drug use

Catalog number **E-2255.0025**
Product number **4001056.0025**
Product **H- Phe- OtBu · HCl**
Molecular formula **C₁₃H₁₉NO₂ · HCl**
Relative molecular mass **257.76**

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 = 60.6 %</td> <td>C = 60.2 %</td> </tr> <tr> <td>H = 7.8 %</td> <td>H = 7.7 %</td> </tr> <tr> <td>N = 5.4 %</td> <td>N = 5.4 %</td> </tr> </tbody> </table> <p>calc. x 1 HCl</p>	Theory	Found	C = 60.6 %	C = 60.2 %	H = 7.8 %	H = 7.7 %	N = 5.4 %	N = 5.4 %
Theory	Found								
C = 60.6 %	C = 60.2 %								
H = 7.8 %	H = 7.7 %								
N = 5.4 %	N = 5.4 %								
Identification (TLC)	complies with authentic material								
Specific optical rotation	$[\alpha]_D^{24} = +47.0^\circ$ (2 % in ethanol)								
Purity (TLC)	> 99%								
Related impurities (TLC)	< 0.2% H-Phe-OH								
TLC conditions	chloroform/methanol/acetic acid/H ₂ O 45/13/1/2 chloroform/methanol/acetic acid 85/10/5 chloroform/methanol/toluene/H ₂ O 8/8/8/1 plate: silicagel 60 F ₂₅₄ detected by: UV, ninhydrin, chlorine-tolidine								
Assay (elemental analysis)	99.3% (Cth 60.58 %, Cfd 60.17 %)								
Chloride content (titration)	14.0%								

Latest update: April 26, 2017

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