

Analytical Data Sheet

Lot number **1000004497**
not for drug use

Catalog number **F-4205.0001**
Product number **4042478.0001**
Product **H- β- (3- Pyridyl) - D- Ala- OH · 2 HCl**
Molecular formula **C₈H₁₀N₂O₂ · 2 HCl**
Relative molecular mass **239.10**

Tests	Results								
Appearance	almost white powder								
Appearance of solution	clear, colorless solution (50 mg/mL in water)								
Identification (elemental analysis)	<table> <thead> <tr> <th>Theory</th> <th>Found</th> </tr> </thead> <tbody> <tr> <td>C = 40.2 %</td> <td>C = 39.72 %</td> </tr> <tr> <td>H = 5.1 %</td> <td>H = 5.00 %</td> </tr> <tr> <td>N = 11.7 %</td> <td>N = 11.54 %</td> </tr> </tbody> </table>	Theory	Found	C = 40.2 %	C = 39.72 %	H = 5.1 %	H = 5.00 %	N = 11.7 %	N = 11.54 %
Theory	Found								
C = 40.2 %	C = 39.72 %								
H = 5.1 %	H = 5.00 %								
N = 11.7 %	N = 11.54 %								
Identification (TLC)	complies with authentic material								
Specific optical rotation	$[\alpha]_D^{24} = -18.4^\circ$ (1 % in H ₂ O)								
Purity (TLC)	> 99%								
TLC conditions	n-butanol/acetic acid/H ₂ O 4/2/2 chloroform/methanol/acetic acid 32% 5/3/1 plate: silicagel 60 F ₂₅₄ detected by: UV, ninhydrin, TMB								
Enantiomer content (GC)	0.1% L-Isomer								
Other amino acids (GC)	none detected (< 0.3 %)								
Assay (elemental analysis)	98.7% (Nth 11.72%, Nfd 11.57%)								
Water content (KF volumetric)	1.1%								
Chloride content (titration)	99.7%								

Latest update: August 09, 2018

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