

## Analytical Data Sheet

Lot number **1075749**  
not for drug use

Catalog number **F-4165.1000**  
Product number **4014182.1000**  
Product **H-  $\beta$ - (3- Pyridyl) - D- Ala- OMe · 2 HCl**  
Molecular formula **C<sub>9</sub>H<sub>12</sub>N<sub>2</sub>O<sub>2</sub> · 2 HCl**  
Relative molecular mass **253.13**

Tests	Results
Appearance	white powder
Appearance of solution	clear, colorless solution (50 mg/ml in methanol)
Identification (TLC)	complies with authentic material
Melting point	196 °C
Specific optical rotation	$[\alpha]_D^{24} = -20.3^\circ$ (1 % in methanol)
Purity (TLC)	> 99%
Related impurities (TLC)	< 0.2% H- $\beta$ -(-Pyridyl)-D-Ala-OH * 2 HCl
TLC conditions	ethylacetate/pyridine/acetic acid/H <sub>2</sub> O 60/60/12/36 chloroform/methanol/acetic acid/H <sub>2</sub> O 60/45/14/6 n-butanol/acetic acid/H <sub>2</sub> O 4/2/2 plate: silicagel 60 F <sub>254</sub> detected by: UV, ninhydrin, TMB
Enantiomer content (GC)	0.1% L-Enantiomer
Assay (elemental analysis)	99.4% (Nth 11.07%, Nfd 11.00%)
Chloride content (titration)	100.3% of theoretical

Latest update: February 21, 2018

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