

Analytical Data Sheet

Lot number **1000026910**
not for drug use

Catalog number **K-1012.0001**
Product number **4025041.0001**
Product **H- Ala- β NA**
Molecular formula **C₁₃H₁₄N₂O**
Relative molecular mass **214.27**

Tests	Results								
Appearance	off-white powder								
Appearance of solution	clear, yellowish solution (Ph. Eur. BY5)								
Identification (elemental analysis)	<table> <thead> <tr> <th>Theory</th> <th>Found</th> </tr> </thead> <tbody> <tr> <td>C = 72.9%</td> <td>C = 72.7%</td> </tr> <tr> <td>H = 6.6%</td> <td>H = 6.6%</td> </tr> <tr> <td>N = 13.1%</td> <td>N = 13.1%</td> </tr> </tbody> </table>	Theory	Found	C = 72.9%	C = 72.7%	H = 6.6%	H = 6.6%	N = 13.1%	N = 13.1%
Theory	Found								
C = 72.9%	C = 72.7%								
H = 6.6%	H = 6.6%								
N = 13.1%	N = 13.1%								
Identification (TLC)	complies with authentic material								
Melting point	104 °C								
Specific optical rotation	$[\alpha]_D^{24} = -4.8^\circ$ (1% in methanol)								
Purity (TLC)	> 99%								
TLC conditions	n-butanol/acetic acid/H ₂ O 4/2/2 chloroform/methanol/acetic acid/H ₂ O 45/13/1/2 ethylacetate/pyridine/acetic acid/H ₂ O 60/20/6/11 plate: silicagel 60 F ₂₅₄ detected by: UV, ninhydrin, TMB								
Assay (titration)	99.7% (HClO ₄)								
Water content (KF volumetric)	0.3%								

Latest update: January 10, 2020

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