

Analytical Data Sheet

Lot number **1074499**
not for drug use

Catalog number **E-1335.0025**
Product number **4000618.0025**
Product **H- Ala- OMe · HCl**
Molecular formula **C₄H₉NO₂ · HCl**
Relative molecular mass **139.58**

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 = 34.4 %</td> <td>C = 34.5 %</td> </tr> <tr> <td>H = 7.2 %</td> <td>H = 7.2 %</td> </tr> <tr> <td>N = 10.0 %</td> <td>N = 10.0 %</td> </tr> </tbody> </table> <p>calc. x 1 HCl</p>	Theory	Found	C = 34.4 %	C = 34.5 %	H = 7.2 %	H = 7.2 %	N = 10.0 %	N = 10.0 %
Theory	Found								
C = 34.4 %	C = 34.5 %								
H = 7.2 %	H = 7.2 %								
N = 10.0 %	N = 10.0 %								
Identification (TLC)	complies with authentic material								
Melting point	110 °C								
Specific optical rotation	$[\alpha]_D^{24} = +7.2^\circ$ (2 % in methanol)								
Purity (TLC)	> 99% ≤ 0.5% H-Ala-OH (container 7)								
TLC conditions	n-butanol/acetic acid/H ₂ O 4/2/2 chloroform/methanol/acetic acid 32% 5/3/1 (TLC is eluted twice) ethylacetate/pyridine/acetic acid/H ₂ O 6/4/1/3 plate: silicagel 60 F ₂₅₄ detected by: UV, ninhydrin, TMB								
Enantiomer content (chiral chromatography)	< 0.1% D-enantiomer								
Assay (elemental analysis)	99.2% (Nth 10.03 %, Nfd 9.95 %)								
Water content (KF volumetric)	0.3%								
Chloride content (titration)	25.3%								