

Analytical Data Sheet

Lot number **1060487**
not for drug use

Catalog number **F-1155.0100**
Product number **4002283.0100**
Product **H- β -Ala-OMe · HCl**
Molecular formula **C₄H₉NO₂ · HCl**
Relative molecular mass **139.58**

| Tests | Results |
|-------------------------------------|--|
| Appearance | white crystalline product |
| Appearance of solution | clear, colorless solution (50 mg/mL in methanol) |
| Identification (elemental analysis) | <p>Theory Found</p> <p>C = 34.4% C = 34.5%</p> <p>H = 7.2% H = 6.8%</p> <p>N = 10.0% N = 10.0%</p> <p>calc. x 1 HCl</p> |
| Identification (TLC) | complies with authentic material |
| Melting point | 106 °C |
| Purity (TLC) | > 99% |
| Related impurities (TLC) | < 0.2% H- β -Ala-OH |
| TLC conditions | <p>n-butanol/acetic acid/H₂O 4/2/2</p> <p>chloroform/methanol/acetic acid 32% 5/3/1</p> <p>ethylacetate/pyridine/acetic acid/H₂O 6/5/1/3</p> <p>plate: silicagel 60 F₂₅₄</p> <p>detected by: UV, ninhydrin, TMB</p> |
| Assay (elemental analysis) | 99.2% (Nth 10.03%, Nfd 9.95%) |
| Water content (KF volumetric) | 0.3% |
| Chloride content (titration) | 25.2% (AgNO ₃) |

Latest update: July 15, 2015

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