

## Analytical Data Sheet

Lot number **1000009431**  
not for drug use

Catalog number **F-2490.0001**  
Product number **4014923.0001**  
Product **H-  $\beta$ - (3- Benzothienyl) - Ala- OH**  
Molecular formula **C<sub>11</sub>H<sub>11</sub>NO<sub>2</sub>S**  
Relative molecular mass **221.28**

| Tests                         | Results   |
|-------------------------------|---|
| Appearance                    | off-white powder  |
| Appearance of solution        | clear, colorless solution (10 mg/mL in 90% acetic acid)   |
| Identification (TLC)          | complies with authentic material  |
| Specific optical rotation     | $[\alpha]_D^{24} = -28.3^\circ$ (1% in 90% acetic acid)<br>(corrected for assay)  |
| Purity (TLC)                  | > 99%   |
| TLC conditions                | chloroform/methanol/acetic acid 32% 5/3/1<br>chloroform/methanol/acetic acid/H <sub>2</sub> O 70/42/0.5/10<br>Plate: silicagel 60 F <sub>254</sub><br>detected by: UV, ninhydrin, TMB |
| Enantiomer content (GC)       | < 0.1% D-Enantiomer   |
| Other amino acids (GC)        | < 0.1%  |
| Assay (elemental analysis)    | 99.5% (Cth 59.71%, Cfd 59.44%)  |
| Assay (titration)             | 99.0% (HClO <sub>4</sub> )  |
| Water content (KF volumetric) | 0.1%  |

Latest update: November 29, 2018

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