

## Analytical Data Sheet

Lot number **1072166**  
not for drug use

Catalog number **E-1440.0005**  
Product number **4003614.0005**  
Product **H- Asp(OMe) - OMe · HCl**  
Molecular formula **C<sub>6</sub>H<sub>11</sub>NO<sub>4</sub> · HCl**  
Relative molecular mass **197.62**

| Tests                        | Results  |
|------------------------------|--|
| Appearance                   | white powder   |
| Appearance of solution       | clear, colorless solution (50 mg/mL in methanol)   |
| Identification (TLC)         | complies with reference material   |
| Melting point                | 117 °C   |
| Specific optical rotation    | $[\alpha]_D^{24} = + 15.3^\circ$ (1% in methanol)  |
| Purity (TLC)                 | > 98%  |
| TLC conditions               | ethylacetate/pyridine/acetic acid/H <sub>2</sub> O 6/5/1/3<br>n-butanol/acetic acid/H <sub>2</sub> O 4/2/2<br>chloroform/methanol/acetic acid 32% 5/3/1<br>chloroform/methanol/toluene/H <sub>2</sub> O 8/8/8/1<br>plate: silicagel 60 F <sub>254</sub><br>detected by: UV, ninhydrin, TMB |
| Assay (elemental analysis)   | 99.2% (Nth 7.09%, Nfd 7.03%)   |
| Chloride content (titration) | 18.1%  |

Latest update: June 12, 2017

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