

## Analytical Data Sheet

Lot number **1070201**  
not for drug use

Catalog number **E-2505.0005**  
Product number **4003635.0005**  
Product **H- Trp- NH<sub>2</sub> · HCl**  
Molecular formula **C<sub>11</sub>H<sub>13</sub>N<sub>3</sub>O · HCl**  
Relative molecular mass **239.70**

Tests	Results								
Appearance	off 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 = 55.0%</td> <td>C = 54.6%</td> </tr> <tr> <td>H = 5.9%</td> <td>H = 6.0%</td> </tr> <tr> <td>N = 17.5%</td> <td>N = 17.4%</td> </tr> </tbody> </table>	Theory	Found	C = 55.0%	C = 54.6%	H = 5.9%	H = 6.0%	N = 17.5%	N = 17.4%
Theory	Found								
C = 55.0%	C = 54.6%								
H = 5.9%	H = 6.0%								
N = 17.5%	N = 17.4%								
Identification (TLC)	complies with authentic material								
Melting point	261 °C								
Specific optical rotation	$[\alpha]_D^{24} = +24.6^\circ$ (1% in water)								
Purity (TLC)	> 99%								
Related impurities (TLC)	< 0.1% H-Trp-OMe x HCl < 0.1% H-Trp-OH x HCl								
TLC conditions	n-butanol/acetic acid/H <sub>2</sub> O 4/2/2 chloroform/methanol/acetic acid/H <sub>2</sub> O 45/13/1/2 ethylacetate/pyridine/acetic acid/H <sub>2</sub> O 60/30/9/16.5 plate: silicagel 60 F <sub>254</sub> detected by: UV, ninhydrin, TMB								
Enantiomer content (GC)	< 0.1% D-Enantiomer								
Assay (elemental analysis)	100.3% (Nth 17.53%, Nfd 17.59%)								
Water content (KF coulometric)	< 0.1%								
Chloride content (titration)	15.0%								