

## Analytical Data Sheet

Lot number **1000028222**  
not for drug use

**Catalog number** L-1115.0250  
**Product number** 4002751.0250  
**Product** H- Ala- Pro- pNA hydrochloride salt  
**Molecular formula** C<sub>14</sub>H<sub>18</sub>N<sub>4</sub>O<sub>4</sub>  
**Relative molecular mass** 306.32

Tests	Results
<b>Appearance</b>	yellow powder
<b>Appearance of solution</b>	clear, yellow solution
<b>Identification (TLC)</b>	conforms with authentic material
<b>Purity (TLC)</b>	> 99%
<b>Related impurities (TLC)</b>	< 0.1% pNA
<b>TLC conditions</b>	ethylacetate/pyridine/acetic acid/H <sub>2</sub> O 60/30/9/16.5 chloroform/methanol/acetic acid 32% 5/3/1 plate: silicagel 60 F <sub>254</sub> detected by: UV, ninhydrin, chlorine-tolidine
<b>Assay (elemental analysis)</b>	87.4% (Nth 18.29 %, Nfd 15.99 %)
<b>Water content (KF volumetric)</b>	1.8%
<b>Chloride content (titration)</b>	10.2%

Latest update: February 06, 2020

**Analytical Data Sheet**  
Lot number **1000028222**