



# Chengdu KaiJie Biopharm Co., Ltd.

**KAIJIE**

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## Certification of Analysis

| <b>Product Name</b>      | <i>GHRP-2 Acetate</i>   |  | <b>CAS. No.</b>           | 158861-67-7                            |              |
|--------------------------|---|--|---------------------------|--|--------------|
| <b>Molecular Formula</b> | <i>C<sub>45</sub>H<sub>55</sub>N<sub>9</sub>O<sub>6</sub></i> |  | <b>Batch No.</b>          | 20100407                               |              |
| <b>Molecular Weight</b>  | <i>817.97</i>   |  | <b>Manufacturing Date</b> | 04/07/2010                             |              |
| <b>Storage</b>           | <i>2~8 °C</i>   |  | <b>Retest Date</b>        | 04/06/2012                             |              |
| <b>Sequence</b>          | <i>D-Ala-D-β-Nal-Ala-Trp-D-Phe-Lys-NH<sub>2</sub></i>         |  |                           |  |              |
| <b>TEST</b>              |   | <b>SPECIFICATION</b>   |                           | <b>RESULT</b>                          |              |
| 1                        | <b>Appearance</b>   | <i>White powder</i>  |                           | <i>White powder</i>                    |              |
| 2                        | <b>Solubility</b>   | <i>Soluble in water or acetic acid to give a clear, colorless solution</i> |                           | <i>Conforms</i>                        |              |
| 3                        | <b>Amino Acid Composition</b>                                 | <i>±10% of theoretical</i>   |                           | <i>Conforms</i>                        |              |
| 4                        | <b>Peptide Purity (By HPLC)</b>                               | <i>≥ 95.0% by area integration</i>   |                           | <i>98.88%</i>                          |              |
| 5                        | <b>Related Substance (By HPLC)</b>                            | <i>Total Impurities(%)≤5.0%</i>  | <i>1.12%</i>              | <i>Largest Single Impurity(%)≤2.0%</i> | <i>0.46%</i> |
| 6                        | <b>Acetate Content (By HPLC)</b>                              | <i>≤15.0%</i>  | <i>13.03%</i>             |  |              |
| 7                        | <b>Water Content (Karl Fischer)</b>                           | <i>≤8.0%</i>   | <i>3.54%</i>              |  |              |
| 8                        | <b>Bacterial Endotoxins</b>                                   | <i>≤5EU/mg</i>   | <i>Conform</i>            |  |              |
| 9                        | <b>Peptide Content (N determination)</b>                      | <i>≥80.0%</i>  | <i>82.15%</i>             |  |              |
| 10                       | <b>Assay (By Anhydrous, Acetic Acid-free )</b>                | <i>95.0~105.0%</i>   | <i>98.72%</i>             |  |              |

Quality Control By Zhouzhongbing Date: 2010-05-21

Quality Assurance Department