



## Chengdu Kaijie Biopharm Co., Ltd.

**KAIJIE**

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### Certification of Analysis

|                         |                        |                          |   |
|-------------------------|------------------------|--------------------------|---|
| <i>Product Name</i>     | <b>Thymopentin</b>     | <i>Molecular Formula</i> | C <sub>30</sub> H <sub>49</sub> N <sub>9</sub> O <sub>9</sub> |
| <i>Molecular Weight</i> | 679.8                  | <i>CAS. No.</i>          | 69558-55-0  |
| <i>Storage</i>          | ≤20℃                   | <i>Batch No.</i>         | 20100823  |
| <i>Sequence</i>         | Arg-Lys-Asp-Val-Tyr-OH |                          |   |

| <i>TEST</i> |  | <i>SPECIFICATION</i>  | <i>RESULT</i> |
|-------------|--|---|---------------|
| 1           | Appearance   | White powder  | White powder  |
| 2           | Solubility   | Soluble in water or 1% acetic acid at a concentration of 1mg/ml to give a clear, colorless solution | Conforms      |
| 3           | Specific Optical Rotation<br>[α] <sub>D</sub> <sup>20</sup> (c=2,H <sub>2</sub> O) | -14.0 ~ -22.0°  | -17.32°       |
| 4           | pH   | 7.0 ~ 9.0   | 7.76          |
| 5           | Water Content(K.F.)  | ≤5.0%   | 3.30%         |
| 6           | Amino Acid Composition   | ±10% of theoretical   | Conforms      |
| 7           | Purity(By HPLC)  | ≥98.0%  | 99.01%        |
| 8           | Single Impurity(By HPLC)   | ≤1.0%   | 0.56%         |
| 9           | Bacterial Endotoxins   | ≤5EU/mg   | Conforms      |
| 10          | Assay(By HPLC)   | ≥98.0%  | 99.35%        |

Quality Control By Zhouzhongbing

Date: 2010-08-26

Quality Assurance Department