



Hangzhou Peptidego Biotech Co.,Ltd

CERTIFICATION OF ANALYSIS

| | |
|--|---------------------------|
| Vasopressin Powder (Synthetic) | CAS: 129979-57-3 |
| Product No.:800058 | Batch No.: 18030017 |
| Date of Mfg: Apr 19, 2018 | Date of Exp: Apr 18, 2020 |
| Sequence: Cys-Tyr-Phe-Gln-Asn-Cys-Pro-Arg-Gly-NH ₂ (Cys1&Cys6 bridge) | |

| Test | Specification | Result | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------|--|--------------------------------|---------|-----|---------|-----|---------|-----|---------|-----|---------|-----|---------|-----|---------|-----|---------|--|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|---------|
| Appearance | White or off-white powder | White powder | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Solubility | Soluble in water | conforms | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HPLC | The principal peak in the chromatogram obtained with the test solution is similar in retention time to principal peak in the chromatogram obtained with the reference solution. | conforms | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Amino acid analysis | <table border="0"> <tr><td>Arg</td><td>0.9-1.1</td></tr> <tr><td>Gly</td><td>0.9-1.1</td></tr> <tr><td>Pro</td><td>0.9-1.1</td></tr> <tr><td>Asp</td><td>0.9-1.1</td></tr> <tr><td>Glu</td><td>0.8-1.0</td></tr> <tr><td>Phe</td><td>0.9-1.1</td></tr> <tr><td>Tyr</td><td>0.9-1.1</td></tr> <tr><td>Cys</td><td>Present</td></tr> </table> <p>No more than the traces of the other amino acids are present.</p> | Arg | 0.9-1.1 | Gly | 0.9-1.1 | Pro | 0.9-1.1 | Asp | 0.9-1.1 | Glu | 0.8-1.0 | Phe | 0.9-1.1 | Tyr | 0.9-1.1 | Cys | Present | <table border="0"> <tr><td>Arg</td><td>0.9</td></tr> <tr><td>Gly</td><td>1.0</td></tr> <tr><td>Pro</td><td>1.0</td></tr> <tr><td>Asp</td><td>1.1</td></tr> <tr><td>Glu</td><td>1.0</td></tr> <tr><td>Phe</td><td>1.0</td></tr> <tr><td>Tyr</td><td>0.9</td></tr> <tr><td>Cys</td><td>Present</td></tr> </table> <p>No more than the traces of the other amino acids are present.</p> | Arg | 0.9 | Gly | 1.0 | Pro | 1.0 | Asp | 1.1 | Glu | 1.0 | Phe | 1.0 | Tyr | 0.9 | Cys | Present |
| Arg | 0.9-1.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Gly | 0.9-1.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pro | 0.9-1.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Asp | 0.9-1.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Glu | 0.8-1.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Phe | 0.9-1.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tyr | 0.9-1.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cys | Present | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Arg | 0.9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Gly | 1.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pro | 1.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Asp | 1.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Glu | 1.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Phe | 1.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tyr | 0.9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cys | Present | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MS | 1084.2 ± 1.0 | conforms | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Related Substances | Unspecified impurity for each impurity: NMT1.0% | 0.35%(single largest impurity) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Purity(HPLC) | NLT 98% | 99.04% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Acetic acid | NMT 15% | 9.1% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Water | NMT 7.0% | 4.1% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Add : Tianhe Hi-Tech park, Binjiang district, Hangzhou, Zhejiang , China

Tel: +86 -571-87213919

Email : Ellis@peptidego.com

www.peptidego.com



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| Vasopressin Powder (Synthetic) | CAS: 129979-57-3 |
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| Date of Mfg: Apr 19, 2018 | Date of Exp: Apr 18, 2020 |
| Sequence: Cys-Tyr-Phe-Gln-Asn-Cys-Pro-Arg-Gly-NH ₂ (Cys1&Cys6 bridge) | |

| Test | Specification | Result |
|---|--|----------|
| Bacterial endotoxins | Less than 5IU/mg | conforms |
| Assay | 97.0%-103.0% (anhydrous and acetic acid free substance) | 99.2% |
| Residual solvent Methanol Acetonitrile Triethylamine | NMT 3000ppm NMT 410 ppm NMT 320 ppm | conforms |

Storage: In an air tight container,protected from light at temperature below -15°C.

Conclusion: the product complies with specification.

It is only supplied as chemical product. Used only for research. Not for human use.

Analysis :Janie.zhang
Date :2018.04.19

Approved by : Christ.zheng
Date :2018.04.19



Add : Tianhe Hi-Tech park, Binjiang district, Hangzhou, Zhejiang , China
Tel: +86 -571-87213919
Email : Ellis@peptidego.com
www.peptidego.com