

**CHEM RESEARCH LTD**

| Certificate of Analysis                                                  |                                                                                         |                               |              |
|--------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|-------------------------------|--------------|
| Product Name                                                             | Semax 10mg                                                                              |                               |              |
| CAS. NO.                                                                 | 80714-61-0                                                                              | Batch No.                     | TH-250807    |
| Molecular Formula                                                        | C <sub>37</sub> H <sub>51</sub> N <sub>9</sub> O <sub>10</sub> S                        | Molecular Weight              | 813.93       |
| Mfg.Date                                                                 | 2025.08.07                                                                              | Retest Date                   | 2027.08.06   |
| Report Date                                                              | 2025.08.09                                                                              | Amount                        | 10mg         |
| Sequence: Met-Glu-His-Phe-Pro-Gly-Pro (H-Met-Glu-His-Phe-Pro-Gly-Pro-OH) |                                                                                         |                               |              |
| Items                                                                    |                                                                                         | Specification                 | Result       |
| 1                                                                        | Appearance                                                                              | White powder in vial          | White powder |
| 2                                                                        | Solubility                                                                              | Freely soluble in water       | Conforms     |
| 3                                                                        | Water Content (K.F)                                                                     | ≤7.0%                         | 2.43%        |
| 4                                                                        | Acetic Acid                                                                             | ≤15.0%                        | 3.73%        |
| 5                                                                        | Identity by MS                                                                          | Theoretical MW:813.92         | Confirms     |
| 6                                                                        | Purity (by HPLC)                                                                        | ≥98.0%                        | 99.08%       |
| 7                                                                        | Residual Solvent                                                                        | Acetonitrile ≤410ppm          | Conforms     |
|                                                                          |                                                                                         | Dichloromethane ≤600ppm       | N.D          |
|                                                                          |                                                                                         | Methanol ≤3000ppm             | Conforms     |
|                                                                          |                                                                                         | N,N-Dimethylformamide ≤880ppm | N.D          |
| 8                                                                        | Total Plate count                                                                       | ≤200cfu/g                     | Conforms     |
| 9                                                                        | Bacterial Endotoxins                                                                    | < 10 EUmg                     | Conforms     |
| 10                                                                       | Amount by HPLC                                                                          | 10 mg                         | 11.01mg      |
| Storage                                                                  | Preserve in an air tight container, protected from light at a temperature of -25°C-15°C |                               |              |
| Conclusion                                                               | The product tested Conform with In-house standard                                       |                               |              |
| Remark                                                                   | It is only supplied as chemical product                                                 |                               |              |