

## Chengdu YoungShe Chemical Co.,Ltd

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## **Certification of Analysis**

## 产品分析证明书

Pr 产	oduct 品	三肽	Copper Tripeptide-1 -1 铜(蓝铜肽、铜肽、铜胜肽)	)
分子式 MF.		C <sub>14</sub> H <sub>22</sub> N <sub>6</sub> O <sub>4</sub> .Cu	批号Batch No.	YS1802CP1
分子量 MW.		338+63.54	批量 Batch Quantity	11562g
CAS No. 复测 Retest Date		89030-95-5 生产日期Manufacturing Date 02/2020 过期日期 Expiry Date	生产日期Manufacturing Date	02/06/2018
			02/05/2020	
序列 Sequence		Gly-His-Lys.Cu.xHac		
检验项目 TEST		检验指标 SPECIFICATION		结果RESULT
1	外观 Appearanc	е	Blue to purple powder	Conforms
2	鉴别 Identity by HPLC		The retention is same with the reference substance	Conforms
	鉴别 Identity by MS		(GHK)340.5±1	Conforms
3	溶解性 Solubility		≥100mg/ml(H <sub>2</sub> O)	Conforms
4	Amino Acid Composition		±10% of theoretical	Conforms
5	纯度 <b>Peptide purity</b> (By HPLC)		≥95.0% by area integration	98.89%
6	水份 Water Content (Karl Fischer)		≤8.0%	2.87%
7	铜含量 Copper Content		8-12%	10.96%
8	pH (1% water solution)		6.0-8.0	6.61

Conclusion: the test result is confirmed to the specification and qualified

储存条件 Storage:避光密闭保存于阴凉干燥处,长期保存建议-20  $^{\circ}$  。Cool and dry place, protected from light, keep package airproofed when not in use. Please store -20  $^{\circ}$  for long term storage.

备注 Remarks:如遇质量问题,请于收到产品日起 30 日内与我们联系。In case of any quality issues, please contact us within 30 days after receipt of the product.

Tested By Oing Huo, Audited By Ke Liu Date: 2018-03-01
YoungShe Chem Quality Control Department