

Certification of Analysis

Product Name	Calcitonin Salmon		
CAS No	47931-85-1	Standard	In-house
Batch No.	20140801	Manufacturing Date	08/2014
Molecular Formula	C ₁₄₅ H ₂₄₀ N ₄₄ O ₄₈ S ₂	Retest Date	07/2016
Molecular Weight	3431.2	Storage	2~8℃
Sequence	$\text{H-Cys-Ser-Asn-Leu-Ser-Thr-Cys-Val-Leu-Gly-Lys-Leu-Ser-Gln-Glu-Leu-His-Lys-Leu-Gln-Thr-Tyr-Pro-Arg-Thr-Asn-Thr-Gly-Ser-Gly-Thr-Pro-NH}_2$		
TEST		SPECIFICATION	RESULT
1	Appearance	White powder	Conforms
2	Solubility	Soluble in water	Conforms
3	Identity by HPLC	The retention is same with the reference substance	Conforms
4	Amino Acid Composition	Asp: 1.8~2.2 Glu: 2.7~3.3 Pro: 1.7~2.3 Gly: 2.7~3.3 Val: 0.9~1.1 Leu: 4.5~5.3 His: 0.9~1.1 Arg: 0.9~1.1 Lys: 1.8~2.2 Ser: 3.2~4.2 Thr: 4.2~5.2 Tyr: 0.7~1.1 Cys: 1.4~2.1	1.98 2.92 2.05 3.02 1.01 5.12 1.05 1.01 2.00 3.52 4.78 0.95 1.82
5	Acetate Content (By HPLC)	4~15.0%	7.5%
6	Peptide Purity (By HPLC)	≥95.0% by area integration	99.10%
7	Related Substance (By HPLC)	Total Impurities(%) ≤5.0% Impurity A ≤3.0% Impurity B ≤3.0% Impurity C ≤3.0% Impurity D ≤3.0%	0.90% Not Detected 0.46% 0.08% Not Detected
8	Water Content (Karl Fischer)	≤10.0%	4.1%
9	Acetic acid and water	≤20.0%	11.6%
10	Bacterial Endotoxins	≤25 IU/mg	Conforms
11	Assay	90.0~105.0% (By Anhydrous, Acetic Acid-free)	98.5%
Caution: Only for Research, Not for Human Use			

Quality Control By Wangpei Date: 2014-09-05

Quality Assurance Department