

## Chengdu KaiJie Biopharm Co., Ltd.

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## **Certification of Analysis**

Product Name		Teriparatide Acetate	CAS. No.	52232-67-4
Molecular		$C_{181}H_{291}N_{55}O_{51}S_2$	Batch No.	20090722
Molecular Weight		4117.72	Manufacturing Date	07/22/2009
Storage		2∼8℃	Retest Date	07/21/2011
Sequ	ience	H-Ser-Val-Ser-Glu-Ile-Gln-Leu-Met-His-Asn-Leu -Gly-Lys-His-Leu-Asn-Ser-Met-Glu-Arg-Val-Glu-Trp -Leu-Arg-Lys-Lys-Leu-Gln-Asp-Val-His-Asn-Phe-OH		
I		TEST	SPECIFICATION	RESULT
1	Appearance		White powder	Conforms
2	Solubility		Soluble in water or 1% acetic acid at a concentration of ≥1mg/ml to give a clear, colorless solution	Conforms
3	Identity		Monoisotopic Mass: 4117.7±2.0	4116.0
4	Specific Optical Rotation(c=0.5, 1% HAc)		-65.0 ~-75.0°	-69.25°
5	Amino Acid Composition		±20%	Conforms
6	Peptide Purity (By HPLC)		≥95.0% by area integration	98.09%
7	Related Substance(By HPLC)		Total Impurities(%)≤5.0% Largest Single Impurity(%)≤2.0%	1.91% 0.67%
8	Acetate Content		≤15%	6.58%
9	Water Content(Karl Fischer)		≤8.0%	4.35%
10	Bacterial Endotoxins		≤5 EU/mg	Conforms
11	Peptide Content(N determination)		≥80.0%	87.6%
12	Assay(By Anhydrous, Acetic Acid-free)		95.0~105.0%	98.53%

Quality Control By Zhouzhongbin Date: 2010-08-09

**Quality Assurance Department**