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RTS230410T0745HL
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# Test Report

Sample name: Earrings

Applicant: Zhejiang Zhongtai Jewelry Co., Ltd

Test category: Entrusted inspection

**RTS TEST CO.,LTD. (Zhejiang)**

# Test Report

**Report number: RTS230410T0745HL** **Date of report: 2023-04-18**

**Guest Name:** Zhejiang Zhongtai Jewelry Co., Ltd.

**Address:** Shengshou Road, Chengxi Industrial Zone, Yiwu City350No..

**Sample Product Name:** Earrings.

The above test information is provided by the applicant.

**Receive Date** : April 10, 2023.

Test Date : April 10, 2023 to April 18, 2023.

**Test Requirement** : The contents of lead, cadmium, mercury, arsenic, hexavalent chromium and the release of nickel were detected.

**Judgment basis** : National standards GB 28480-2012 Provisions on the limit of harmful elements in ornaments.

**Test Methods** : See next page.

**Results** : See next page.

SignWordPe

Authorized signatory of laboratory: Zou Binbin.

Scan and pay attention to us

Scan to

**Zhejiang Ruiyi detection technology co., ltd**
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http://www.irtslab.cn

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## 1.Test results:

**A. Refer to national standardsGB28480-2012Regulations on the limit of harmful elements in ornaments, and the contents of lead, cadmium, mercury and arsenic in samples are detected:**

| Testing items | Method detection limit | Unit | Test result No. 1 | Standard limit |
|---|---|---|---|---|
| Lead(Pb) | 5 | mg/kg | 51 | 1000 |
| Cadmium(Cd) | 5 | mg/kg | 34 | 100 |
| Mercury(Hg) | 5 | mg/kg | N.D. | 1000 |
| Arsenic(As) | 5 | mg/kg | N.D. | 1000 |
| Conclusions: | | | Qualified | -- |

**Detection method:** According to GB/T 28021-2011 Standard, using inductively coupled plasma emission spectrometer/ Flame atomic absorption spectrometer (ICP-OES/AAS) to conduct analysis.

**Notes:** 1) N.D. =Not detected or below the detection limit;

2) MDL =Method detection limit;

3) mg/kg = ppm;

4)▲=Mixed test for samples, and the data of mixed test does not represent the results of a certain component.

**B. Refer to national standardsGB28480-2012The limit of harmful elements in ornaments is stipulated, and the content of hexavalent chromium in samples is detected:**

| Detection number | Method detection limit | Unit | Test result Hexavalent chromium(CrVI) | Standard limit | Detection conclusion |
|---|---|---|---|---|---|
| No. 1 | 5 | mg/kg | N.D. | 1000 | Qualified |

**Detection method:**According to GB/T 28019-2011Standard, using diphenylcarbazide spectrophotometry for detection.

**NoteInterpretation:** 1) N.D. =Not detected or below the detection limit;

2) MDL =Method detection limit;

3) mg/kg = ppm;

4)▲=Mixed test for samples, and the data of mixed test does not represent the results of a certain component.

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C. **Nickel release(Unit: μ g/cm2/week):**

**Refer to national standards GB28480-2012 Chapter4.1 Provisions on the limit of harmful elements in ornaments.**

| Detecting details | Method detection limit | Sample number No.2 |
|---|---|---|
| Sample surface area(cm2) | - | 7.7 |
| Measure the volume of solution(ml) | - | 10 |
| Nickel release-Test4 # | 0.01 | N.D. |
| Nickel release-Test5 # | 0.01 | N.D. |
| Nickel release-Test6 # | 0.01 | N.D. |
| Standard limit | - | 0.5 |
| Conclusion | - | Qualified |

**NoteInterpretation:** 1) N.D. =Not detected,Less than the detection limit of the method;
2)▲=Mixed test for samples, and the data of mixed test does not represent the results of a certain component.

**Detection method:** (Test1 #, 2 #, 3 #) Referring to GB/T 19719-2005 Standard, using inductively coupled plasma emission spectrometer(ICP-OES)Make a determination.
(Test4 #, 5 #, 6 #) Referring to GB/T 19719-2005 & GB/T 28485-2012 Standard, using inductively coupled plasma emission spectrometer (ICP-OES) to make a test.

**SayMing:**

| Instruction | Project | Maximum allowable value (μ g/cm)2/week) |
|---|---|---|
| Refer to the national standard GB 28480-2012 Chapter 4.1 Regulations on the limits of harmful elements in jewelry | Products in long-term contact with human skin | 0.5 |
| | Products for use on the ear or any other pierced area of the human body while the piercing wound is healing | 0.2 |

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## 2.Description of sample detection site:

No. 1: Gold-tone metal earring accessories
No.2: Silver metal earring accessories

## Sample picture:



----End of report----

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