



Test Report

Report No. A2230075015105

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Company Name BENBAT USA LLC

shown on Report

Address 100 WEST FOREST AVE, UNIT C, ENGLEWOOD, NJ, 07631, USA

The following sample(s) and sample information was/were submitted and identified by/on the behalf of the client

Sample Name	Hanging Ring with Bumps
Country of Origin	CHINA
Exported to	Australia, Canada, Korea, China, Middle East
Sample Received Date	Feb. 27, 2023
Testing Period	Feb. 27, 2023 to Mar. 3, 2023

Test Conducted:

As requested by the applicant. For details refer to next page(s)

Approved by

Hill Zheng

Technical Manager

Mar. 6, 2023

No. T393411733

Date

Centre Testing International Group Co.,Ltd.

CTI Building, Xing Dong Community, Xin'an Sub-district, Bao'an District, Shenzhen City, Guangdong Province, P.R. China



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Executive Summary:**TEST REQUEST****CONCLUSION**

1) EN 71-3:2019+A1:2021 European Standard on Safety of Toys	
- Migration of certain elements	PASS
2) ASTM F963-17 Standard Consumer Safety Specification for Toy Safety	
- Clause 4.3.5 Heavy elements – Total Lead content	PASS
- Clause 4.3.5 Heavy elements – Migration of certain elements	PASS
3) SOR/2011-17 Toys Regulations of Canada Consumer Product Safety Act (CCPSA)	
- Heavy metal(Total Lead) content in surface coatings/paint	N/A
- Heavy metal(Mercury) content in surface coatings/paint	N/A
- Heavy metals contents in surface coatings/paint	N/A
4) AS/NZS ISO 8124.3:2021 Safety of toys - Part 3: Migration of certain elements	
- Migration of certain elements	PASS

N/A = Not Applicable

***** For further details, please refer to the following page(s) *****

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1) **EN 71-3:2019+A1:2021 European Standard on Safety of Toys**

▼ **Migration of certain elements**

Method(s) EN 71-3:2019+A1:2021 was/were used, and the item(s) was/were analyzed by ICP-OES, ICP-MS, IC-UV and/or GC-MS.

Category III: scraped-off toy material

Tested Item(s)	Result (mg/kg)	MDL (mg/kg)	Limit (mg/kg)
	001		
Aluminium (Al)	N.D.	50	28130
Antimony (Sb)	N.D.	5	560
Arsenic (As)	N.D.	5	47
Barium (Ba)	N.D.	50	18750
Boron (B)	N.D.	50	15000
Cadmium (Cd)	N.D.	1	17
Chromium (III) #1	N.D.	0.2	460
Chromium (VI)	N.D.	0.002	0.053
Cobalt (Co)	N.D.	5	130
Copper (Cu)	N.D.	50	7700
Lead (Pb)	N.D.	1	23
Manganese (Mn)	N.D.	50	15000
Mercury (Hg)	N.D.	5	94
Nickel (Ni)	N.D.	5	930
Selenium (Se)	N.D.	5	460
Strontium (Sr)	N.D.	50	56000
Tin (Sn) #2	N.D.	2	180000
Organic tin (TBT) #3	N.D.	0.05	12
Zinc (Zn)	N.D.	50	46000

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Remark:

- MDL = Method Detection Limit
- N.D. = Not Detected (<MDL)
- mg/kg = ppm = parts per million
- ^{#1} Trivalent chromium (Cr (III)) = Chromium (Cr) - Hexavalent chromium (Cr (VI)).
- ^{#2} Tin (Sn) content can be used for screen test for organic tins analysis to show compliance with the requirement of EN 71-3:2019+A1:2021.
- ^{#3} The migration of organic tin is expressed as tributyltin (TBT). Where the tin content exceeded the limit of organic tin, eleven organic tins listed in the table were determined by GC-MS and the client should note there are other organic tins that may be present in toy materials.

Organic tins tested under EN 71-3:2019+A1:2021
Methyl tin (MeT)
Butyl tin (BuT)
Dibutyl tin (DBT)
Tributyl tin (TBT)
Tetrabutyl tin (TeBT)
n-Octyl tin (MOT)
Di-n-octyl tin (DOT)
Di-n-propyl tin (DProT)
Diphenyl tin (DPhT)
Triphenyl tin (TPhT)
Dimethyl tin (DMT)

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2) ASTM F963-17 Standard Consumer Safety Specification for Toy Safety

▼ Clause 4.3.5 Heavy elements – Total Lead content

Method(s) ASTM F963-17 Clause 8.3 was/were used, and the item(s) was/were analyzed by ICP-OES.

Toy substrate materials:

<u>Tested Item(s)</u>	<u>Result (mg/kg)</u>	<u>MDL</u> (mg/kg)	<u>Limit</u> (mg/kg)
	001		
Total Lead (Pb)	N.D.	5	100

Remark:

- MDL = Method Detection Limit
- N.D. = Not Detected (<MDL)
- mg/kg = ppm = parts per million

▼ Clause 4.3.5 Heavy elements – Migration of certain elements

Method(s) ASTM F963-17 Clause 8.3 was/were used, and the item(s) was/were determined by ICP-OES.

<u>Tested Item(s)</u>	<u>Result (mg/kg)</u>	<u>MDL</u> (mg/kg)	<u>Limit</u> (mg/kg)
	001		
Soluble Antimony (Sb)	N.D.	5	60
Soluble Arsenic (As)	N.D.	2.5	25
Soluble Barium (Ba)	N.D.	5	1000
Soluble Cadmium (Cd)	N.D.	5	75
Soluble Chromium (Cr)	N.D.	2.5	60
Soluble Lead (Pb)	N.D.	5	90
Soluble Mercury (Hg)	N.D.	2.5	60
Soluble Selenium (Se)	N.D.	5	500

Remark:

- MDL = Method Detection Limit
- N.D. = Not Detected (<MDL)
- mg/kg = ppm = parts per million
- Result(s) shown are of adjusted analytical results by subtracting analytical correction factor.

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3) **SOR/2011-17 Toys Regulations of Canada Consumer Product Safety Act (CCPSA)**

▼ **Heavy metal(Total Lead) content in surface coatings/paint**..... **N/A**

Method(s) Health Canada Product Safety Reference Manual Book 5 - Laboratory Policies and Procedures

Part B: Test Methods Section, Method C-02 was/were used, and the item(s) was/were analyzed by ICP-OES.

N/A = Not Applicable (as received, there was no paint or similar surface-coating material on the submitted sample(s), so it is not applicable to the requirement of this standard)

▼ **Heavy metal(Mercury) content in surface coatings/paint**..... **N/A**

Method(s) Health Canada Product Safety Reference Manual Book 5 - Laboratory Policies and Procedures

Part B: Test Methods Section, Method C-07 was/were used, and the item(s) was/were analyzed by ICP-OES.

N/A = Not Applicable (as received, there was no paint or similar surface-coating material on the submitted sample(s), so it is not applicable to the requirement of this standard)

▼ **Heavy metals contents in surface coatings/paint**..... **N/A**

Method(s) Health Canada Product Safety Reference Manual Book 5 - Laboratory Policies and Procedures

Part B: Test Methods Section, Method C-03 was/were used, and the item(s) was/were analyzed by ICP-OES.

N/A = Not Applicable (as received, there was no paint or similar surface-coating material on the submitted sample(s), so it is not applicable to the requirement of this standard)

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4) AS/NZS ISO 8124.3:2021 Safety of toys - Part 3: Migration of certain elements**▼ Migration of certain elements**

Method(s) AS/NZS ISO 8124.3:2021 was/were used, and the item(s) was/were analyzed by ICP-OES.

Toy materials exclude modelling clay and finger paint:

<u>Tested Item(s)</u>	<u>Result</u> (mg/kg)	<u>MDL</u> (mg/kg)	<u>Limit</u> (mg/kg)
	001		
Soluble Antimony (Sb)	N.D.	5	60
Soluble Arsenic (As)	N.D.	2.5	25
Soluble Barium (Ba)	N.D.	5	1000
Soluble Cadmium (Cd)	N.D.	5	75
Soluble Chromium (Cr)	N.D.	2.5	60
Soluble Lead (Pb)	N.D.	5	90
Soluble Mercury (Hg)	N.D.	2.5	60
Soluble Selenium (Se)	N.D.	5	500

Remark:

- MDL = Method Detection Limit
- N.D. = Not Detected (<MDL)
- mg/kg = ppm = parts per million
- Result(s) shown are of adjusted analytical results by subtracting analytical correction factor.

Tested Sample/Part Description

No.	CTI Sample ID	Description
1	001	Grey plastic

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Photo(s) of the sample(s)



Statement:

1. This report is considered invalid without approved signature, special seal and the seal on the perforation;
2. The Company Name shown on Report and Address, the sample(s) and sample information was/were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified;
3. The result(s) shown in this report refer(s) only to the sample(s) tested;
4. Without written approval of CTI, this report can't be reproduced except in full;

*** End of Report ***