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国际互认  
检测  
TESTING  
CNAS L1744

## ZHONG JIE EDUCATIONAL TOYS INDUSTRIAL CO., LTD

**Technical Report: (8820)090-0009**

Apr 22, 2020

Date Received: Mar 30, 2020

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ZHONG JIE EDUCATIONAL TOYS INDUSTRIAL CO., LTD  
BEILONG AREA, HUADONG ROAD, GUANGYI STREET,  
CHENGHAI DISTRICT, SHANTOU CITY, GUANGDONG, CHINA.

Sample Description:	DINOSAUR SERIES, ANIMAL SERIES AND SCENE SERIES		
Vendor:	N/A	Sample Size:	12
Manufacturer:	N/A	Style No(s):	SEE ATTACHMENT
Labeled Age Grade:	3+	SKN/SKU No.:	NOT PROVIDE
Appropriate Age Grade:	NOT REQUESTED	PO No.:	NOT PROVIDE
Client Specified Age Grade:	3+	Ref #:	NOT PROVIDE
Tested Age Grade:	OVER 3 YEARS OF AGE	Country of Origin:	CHINA
UPC Code:	N/A	Assortment No.:	NOT PROVIDE
Resubmitted Sample Date:	APR 20, 2020	Further Information Date:	APR 20, 2020
Test Starting Date:	MAR 30, 2020	Test Finished Date:	APR 22, 2020

### **EXECUTIVE SUMMARY:**

The sample(s) MEETS the following requirement(s):

- The labeling requirements of ASTM F963-17, "Standard consumer safety specification for toy safety".
- The mechanical hazards requirements of ASTM F963-17, "Standard consumer safety specification for toy safety".
- The flammability requirement of solids under ASTM F963-17 section 4.2 according to Annex A5, "Flammability testing procedure for solids and soft toys".

To be continued

BUREAU VERITAS SHENZHEN CO.,LTD  
DONGGUAN BRANCH

BUREAU VERITAS SHENZHEN CO.,LTD  
DONGGUAN BRANCH

Harvey Xue  
Manager, Analytical Lab



Xuechao Li  
Supervisor, Toys Lab

RT/Tina Ye/Sammy Du

### **REMARK**

If there are questions or concerns on this report, please contact the following persons:

Report Enquiry: (86) 0769 89952999 Ext. 8175 CPSAnalytical.DG@bureauveritas.com

Business Contact: (86) 0769 85893595

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### **EXECUTIVE SUMMARY:**

The tested component sample(s) MEETS the following requirement(s):

- The total lead content in substrate requirements of ASTM F963-17, "Standard consumer safety specification for toy safety", Section 4.3.5.2(2)(a).
- The soluble heavy metals content in surface coating requirements of ASTM F963-17, "Standard Consumer Safety Specification for Toy Safety," Section 4.3.5.1(2).
- The soluble heavy metals content in substrate requirements of ASTM F963-17, "Standard Consumer Safety Specification for Toy Safety," Section 4.3.5.2(2)(b).

Note: At the request of the client, the sample(s) was evaluated for use by children 3+.

Note: At the request of the client, ASTM F963-17 the Section 4.25 about Battery-Operated Toys requirement(s) was waived for this submission.

Note: The sample(s) was not evaluated to the Normal Use testing requirements specified in ASTM F963-17, Section 8.5. It is the responsibility of the manufacturer, vendor or distributor to conduct tests that will simulate normal use conditions. These tests shall ensure that hazards are not generated through normal wear and deterioration of the sample(s). These tests shall also simulate the normal play mode of the toy and to simulate the expected mode of use of the particular toy. The tests shall be conducted in an expected use environment. These normal use tests shall simulate the intended use of the toy based on its estimated lifetime.

Note: Certain of products were no function.

Note: At the request of client, test(s) was conducted on the certain component(s) of the submitted samples(s) / submitted component(s).

Note: The composite test sample(s) of the submitted samples was prepared in the manner requested by the client, when subject to the test performed.



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Q9899-X24 , Q9899-X25 , Q9899-X26 , Q9899-X27 , Q9899-Y1 , Q9899-Y2 , Q9899-Y3 , Q9899-Y20 ,  
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Q9899-P21 , Q9899-P22 , Q9899-P23 , Q9899-P24 , Q9899-P25 , Q9899-P26 , Q9899-P27 , Q9899-P28 ,



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Q9899-M10 , Q9899-M11 , Q9899-M12 , Q9899-M13 , Q9899-M14 , Q9899-M15 , Q9899-W6 , Q9899-W7 ,  
Q9899-W8 , Q9899-W9 , Q9899-W10 , Q9899-V6 , Q9899-V7 , Q9899-V8 , Q9899-V9 , Q9899-V10 , Q9899-H09,  
Q9899-H10 , Q9899-H36 , Q9899-H37 , Q9899-H38 , Q9899-H39 , Q9899-H50 , Q9899-H51 , Q9899-H52 ,  
Q9899-H53 , Q9899-H54 , Q9899-H55 , Q9899-B28 , Q9899-B29 , Q9899-B30 , Q9899-B48 , Q9899-B49 ,  
Q9899-B50 , Q9899-B51 , Q9899-B52 , Q9899-B53 , Q9899-B54 , Q9899-B55 , Q9899-B56 , Q9899-B57 ,  
Q9899-B58 , Q9899-B59 , Q9899-B60 , Q9899-Q3 , Q9899-Q4 , Q9899-Q5 , Q9899-Q6 , Q9899-X28 ,  
Q9899-X29 , Q9899-X30 , Q9899-X31 , Q9899-X32 , Q9899-X33 , Q9899-X34 , Q9899-X35 , Q9899-T18 ,  
Q9899-T19 , Q9899-T20 , Q9899-U14 , Q9899-U15 , Q9899-U16 , Q9899-U17 , Q9899-U18 , Q9899-U19 ,  
Q9899-U20 , 08-3065852, 08-3057045, 08-3057016, 08-3056747, 08-3048632, Q9899-007, Q9899-008, Q9899-010,  
Q9899-015



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**Tested Component(s) Description List:**

Test Item(s)	Item / Component Description(s)	Location(s)	Style(s)
I001	Dark brown /dark green /orange / yellow coating	Body of dinosaur	-
I002	Red /green /grey coating	Body of dinosaur	-
I003	Green /brown /purple /red /light yellow coating	Body of dinosaur	-
I004	Cyan /dark orange /red /light cyan /purple /red coating	Body of dinosaur	-
I005	Red brown /dull green /yellow green /black /blue coating	Body of dinosaur	-
I006	Mud green /red /brown /dark blue coating	Body of dinosaur	-
I007	Matt brown /black /beige /brown coating	Horse	-
I008	Dull red /black /dull brown coating	Horse	-
I009	Bright brown /white /black /deep brown coating	Horse	-
I010	Yellow PVC	Dinosaur	-
I011	Orange PVC	Dinosaur	-
I012	Green PVC	Dinosaur	-
I013	Dark brown PVC	Dinosaur	-
I014	Yellow green PVC	Dinosaur	-
I015	White PVC	Horse	-
I016	Peach plastic	Case of speaker	-



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**RESULTS:**

**APPROPRIATE AGE GRADE DETERMINATION**

The Appropriate Age Grade is determined with reference to the Age Determination Guidelines of the Consumer Product Safety Commission (CPSC); and the ASTM F963-17, "Standard Consumer Safety Specification on Toy Safety". Annex A1

Note : The most stringent age grade from the Labeled Age Grade and the Appropriate Age Grade will be used for testing.

Note : If the client does not specify an age grade for testing or request Bureau Veritas Consumer Products Services, Inc. to determine an appropriate age grade, the labeled age grade will be used for testing.

**USE AND ABUSE TESTS**

The samples were undergo the tests in accordance with section 8.6 through 8.16, whichever is applicable

<b>Test</b>	<b>Test Parameters</b>	<b>Standard Reference</b>
Impact Test	4 x 3 ft	1500.53(b)
Torque Test	4 in-lbs	1500.53(e)
Tension Test	15 lbs	1500.53(f)
Compression Test	30 lbs	1500.53(g)
Tip over Test	3 times	1500.53(b)(4)(i)





**RESULTS:**

**PHYSICAL AND MECHANICAL HAZARDS (ASTM F963-17)**

Section	Requirement	Result
4.1	Material Quality	M
4.3.7	Stuffing Materials	M
4.5	Sound-Producing Toys	M
4.6	Small Objects	N/A
4.7	Accessible Edges	M
4.8	Projections	M
4.9	Accessible Points	M
4.10	Wires and Rods	N/A
4.11	Nails and Fasteners	M
4.12	Plastic Film	N/A
4.13	Folding Mechanisms and Hinges	N/A
4.14	Cords, Straps and Elastics	N/A
4.15	Stability and Over-Load Requirements	N/A
4.16	Confined Spaces	N/A
4.17	Wheels, Tires, and Axles	M
4.18	Holes, Clearances and Accessibility of Mechanisms	M
4.19	Simulated Protective Devices	M
4.20	Pacifiers	N/A
4.21	Projectile Toys	N/A
4.22	Teethers and Teething Toys	N/A
4.23	Rattles	N/A
4.24	Squeeze Toys	N/A
4.25	Battery-Operated Toys (exclude Section 4.25.10 Battery-powered ride-on toys & Section 4.25.11 Toys that Contain Secondary Cells or Secondary Batteries)	NT
4.26	Toys Intended to be Attached to a Crib or Playpen	N/A
4.27	Stuffed and Beanbag-Type Toys	N/A
4.30	Toy Gun Marking	N/A
4.32	Certain Toys with Nearly Spherical Ends	N/A
4.34	Small Balls	N/A
4.35	Pompoms	N/A
4.36	Hemispheric-Shaped Objects	N/A
4.37	Yo Yo Elastic Tether Toys	N/A
4.38	Magnets	N/A
4.39	Jaw Entrapment in Handles and Steering Wheels	N/A
4.40	Expanding Materials	N/A

M = Meet    NM = Not Meet    N/A = Not Applicable    R = Refer to Comment Section



**RESULTS:**

**LABELING AND INSTRUCTIONAL REQUIREMENT (ASTM F963-17)**

Section	Requirement	Result
5.4 & 5.3	Aquatic Toys	N/A
5.5 & 5.3	Crib and Playpen Toys	N/A
5.6 & 5.3	Mobiles	N/A
5.7 & 5.3	Stroller and Carriage Toys	N/A
5.8 & 5.3	Toys Intended to be Assembled by an Adult	N/A
5.9 & 5.3	Simulated Protective Devices	N/A
5.10 & 5.3	Toys with Functional Sharp Edges or Sharp Points	N/A
5.11	Small Objects, Small Balls, Marbles and Balloons (16 CFR 1500.19)	M
5.12	Toy Caps (16CFR1500.86)	N/A
5.13	Art Materials (16 CFR 1500.14(b)(8))	N/A
5.15	Battery-Operated Toys (exclude 5.15.1 and 5.15.2)	N/A
5.15.1 & 5.3	Battery-Powered Ride-On Toys	N/A
5.15.2 & 5.3	Button or Coin Cell Batteries	N/A
5.16	Promotional Materials	M
5.17 & 5.3	Magnets	N/A
6.1	Definition and Description	M
6.2	Crib and Playpen Toys	N/A
6.3	Mobiles	N/A
6.4 & 5.3	Toys Intended to be Assembled by an Adult	N/A
6.5	Battery-Operated Toys	N/A
6.6	Battery-Powered Ride-On Toys	N/A
6.7	Toys in Contact with Food	N/A
7.1	Producer's Name and Address	M
7.2	Battery-Powered Ride-on Toys	N/A

M = Meet    NM = Not Meet    N/A = Not Applicable    R = Refer to Comment Section

**FLAMMABILITY (16 CFR SECTION 1500.3(c)6)(vi))**

Requirement	Test Method Reference	Findings
Burn rate no greater than 0.1 of an inch per second	16 CFR 1500.44	Most rapid burn rate less than 0.1 of an inch per second.



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**RESULTS:**

**Total Lead Content in Substrate – ASTM International Standard ASTM F963-17, Section 4.3.5.2(2)(a)**

Test Method : ASTM International Standard ASTM F963-17, Section 8.3.1 and Annex A7.

Maximum Allowable Limit :	100 mg/kg
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Test Item(s)	Result	Unit	Conclusion
	Total Lead (Pb)		
I010+I011+I012	ND	mg/kg	PASS
I016	ND	mg/kg	PASS

Note / key:

ND = Not detected

mg/kg = milligram(s) per kilogram

Detection Limit (mg/kg) : 10



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**RESULTS:**

**Soluble Heavy Metals Content in Surface Coating –ASTM F963-17, Section 4.3.5.1(2)**

Test Method : ASTM International Standard ASTM F963-17, Section 8.3.2 to 8.3.4

Analyte	As	Ba	Cd	Cr	Hg	Pb	Sb	Se
Max. Limit (mg/kg)	25	1000	75	60	60	90	60	500
Analytical Correction (%)	60	30	30	30	50	30	60	60

Analyte	As	Ba	Cd	Cr	Hg	Pb	Sb	Se	Mass of Trace Amount	Conclusion
Test Item(s)	Result (mg/kg)								(g)	
I001	ND	ND	ND	ND	ND	ND	ND	ND	-	PASS
I002	ND	ND	ND	ND	ND	ND	ND	ND	-	PASS
I003	ND	ND	ND	ND	ND	ND	ND	ND	-	PASS
I004	ND	ND	ND	ND	ND	ND	ND	ND	-	PASS
I005	ND	ND	ND	ND	ND	ND	ND	ND	0.0845	PASS
I006	ND	ND	ND	ND	ND	ND	ND	ND	-	PASS
I007	ND	ND	ND	ND	ND	ND	ND	ND	-	PASS
I008	ND	ND	ND	ND	ND	ND	ND	ND	-	PASS
I009	ND	ND	ND	ND	ND	ND	ND	ND	0.0623	PASS

Note / key:

As = Arsenic                      Ba = Barium                      Cd = Cadmium                      Cr = Chromium  
Hg = Mercury                      Pb = Lead                      Sb = Antimony                      Se = Selenium  
ND = Not detected                      g = gram(s)                      % = percent  
mg/kg = milligram(s) per kilogram  
Detection Limit (mg/kg) : As : 2.5; Ba : 100; Cd : 7.5; Each (Cr, Hg, & Sb) : 6.0; Pb : 9.0; Se : 50



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**RESULTS:**

**Soluble Heavy Metals Content in Substrate –ASTM F963-17, Section 4.3.5.2(2)(b)**

Test Method : ASTM International Standard ASTM F963-17, Section 8.3.5 (Excluding 8.3.5.5(3))

Analyte	As	Ba	Cd	Cr	Hg	Pb	Sb	Se
Max. Limit Type I (mg/kg)	25	1000	75	60	60	90	60	500
Max. Limit Type II (mg/kg)	25	250	50	25	25	90	60	500
Analytical Correction (%)	60	30	30	30	50	30	60	60

Analyte	As	Ba	Cd	Cr	Hg	Pb	Sb	Se	Mass of Trace Amount	Conclusion
Test Item(s)	Result (mg/kg)								(g)	
Type I: Substrate other than modeling clay										
I010	ND	ND	ND	ND	ND	ND	ND	ND	-	PASS
I011	ND	ND	ND	ND	ND	ND	ND	ND	-	PASS
I012	ND	ND	ND	ND	ND	ND	ND	ND	-	PASS
I013	ND	ND	ND	ND	ND	ND	ND	ND	-	PASS
I014	ND	ND	ND	ND	ND	ND	ND	ND	-	PASS
I015	ND	ND	ND	ND	ND	ND	ND	ND	-	PASS

Note / key:

As = Arsenic                      Ba = Barium                      Cd = Cadmium                      Cr = Chromium  
Hg = Mercury                      Pb = Lead                      Sb = Antimony                      Se = Selenium  
ND = Not detected                      g = gram(s)                      % = percent  
mg/kg = milligram(s) per kilogram (ppm=parts per million)

Detection Limit (mg/kg) :

For Type I – As : 2.5; Ba : 100; Cd : 7.5; Each (Cr, Hg, & Sb) : 6.0; Pb : 9.0; Se : 50

For Type II – Each (As, Cr & Hg) : 2.5; Ba : 25; Cd : 5.0; Sb : 6.0; Pb : 9.0; Se : 50

Remark:

- Textiles (natural or synthetic) are exempted for lead content requirement according to clarification of Toy Industry Association for ASTM F963-17. The lead content analysis result of corresponding material herein is for client's reference only.



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