

# Test Report

Report No.: U00321191113030E

Query Password: QW0332

Date: Dec. 2, 2019

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## The following sample(s) was (were) submitted and identified by client as:

Sample Description	:	Toy Series
Item No.	:	Please refer to next page(s).
Battery	:	2 X "LR44", 2 X "AA", 3 X "LR44"
Packaging Type	:	No packaging
Instruction Manual/Sheet	:	No
Labeled Age Grading	:	Not stated
Requested Age Grading	:	3+
Age Group Applied in Testing	:	3+
Sample Received Date	:	Nov. 13, 2019
Testing Period	:	From Nov. 13, 2019 to Dec. 2, 2019
Test Request	:	Please refer to next page(s).
Test Result(s)	:	Please refer to next page(s).

Signed for and on behalf of Shen Zhen UONE Test Co.,LTD.

Prepared by



Anna Li

Checked by



Nora Deng

Approved by



Pascal Shi



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**Summary of Test Results(Tested parts are required partially by client):**

**TEST REQUEST****CONCLUSION**

ASTM F963-17 American Standard Consumer Safety Specification for Toy Safety

(1)	Mechanical and Physical Properties (Excluding Section 4.25)	PASS
(2)	Flammability	PASS
(3)	Total Lead content in paint and surface coating	PASS
(4)	Total Lead content in substrate material	PASS
(5)	Soluble Heavy Metals content in paint and surface coating	PASS
(6)	Soluble Heavy Metals content in substrate material	PASS

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Item No.:

995,996,997,998,112,112A,112B,112C,9922,9955,9966,9911,9009,9908,9918,9918A,9918B,9918C,9919B,9919A,9919,9002,9006,8011,8022,8033,8055,5022,5066,919,918,9905,9983,9982,9985,F001,F002,F003,F003A,F004,F005,F006,F007,F008,F009,F010,F011,F012 ,F013,F014,F015,F016,F017,F018,F019,F020,F021,F022,F023,F024,F025,F026,F027,F028,F029,F030,F031,F032,F033,F034,F035,F036,F037,F038,F039,F040,F6022,F6022A,P001,P002,P003,P004,P005,P006,P007,P008,P009,P010,P011,P012,P013,P014,P015,P016,P017,P018,P019,P020,P021,P022,P023,P024,P025,P026,P027,P028,P029,P030,P031,P032,P033,P034,P035,P036,P037,P038,P039,P040,P012A,P6022,P6022A,M001,M002,M003,M004,M005,M006,M007,M008,M009,M010,M011,M012,M013,M014,M015,M016,M017,M018,M019,M020,M021,M022,M023,M024,M025,M026,M027,M028,M029,M030,M031,M032,M033,M034,M035,M036,M037,M038,M039,M040,M012A,S001,S002,S003,S004,S005,S006,S007,S008,S009,S010,S011,S012,S013,S014,S015,S016,S017,S018,S019,S020,S021,S022,S023,S024,S025,S026,S027,S028,S029,S030,S031,S032,S033,S034,S035,S036,S037,S038,S039,S040,S012A,D001,D002,D003,D004,D005,D006,D006A,D006B,D007,D008,D009,D010,D011,D012,D013,D014,D015,D016,D017,D018,D019,D020,D021,D022,D012A,A001,A002,A003,A004,A005,A006,A007,A008,A009,A010,A011,A012,A013,A014,A015,A016,A017,A018,A019,A020,A021,A022,A012A

## Test Material(s) List

Material No.	Description	Remark
1	Transparent brown plastic	/
2	Red-brown plastic without coating	/
3	Dark grey plastic	/
4	Light orange plastic	/
5	Dull green plastic	/
6	Dark blue plastic	/
7	Orange plastic	/
8	Yellow plastic	/
9	Transparent plastic sheet	/
10	Silvery plastic label w/ black printing	/
11	Bright dark blue plastic	/
12	Translucent red plastic	/
13	Brown plastic	/
14	Laminated paper label w/ multi-color printing	/
15	Yellow soft plastic	/

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16	Dark green plastic	/
17	Dark yellow plastic	/
18	Pale yellow plastic	/
19	Blue-purple plastic	/
20	Grey fabric w/ plastic	/
21	Grey plastic	/
22	Black plastic	/
23	Red plastic	/
24	Bright silvery coating	/
25	Black coating	/
26	White coating	/
27	Red coating	/
28	Yellow coating	/
29	White w/ black coating	/
30	Dull green coating	/
31	Golden coating	/
32	Red fabric	/
33	Black fabric	/
34	Green/multi-color fabric	/
35	Red fabric	/
36	Yellow-green fabric	/
37	Navy fabric	/
38	Yellow fabric	/
39	White soft plastic	/

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## Test Result(s):

### (1) Mechanical and Physical Properties – ASTM F963-17

Section	Test Item	Assessment
4.1	Material Quality	PASS
4.3.7	Stuffing Materials	NA
4.4	Electrical/Thermal Energy	NA
4.5	Sound-Producing Toys	PASS
4.6	Small Objects	NA
4.6.1	Toys that are intended for children under 36 months of age	NA
4.6.2	Mouth-Actuated Toys	NA
4.6.3	Toys and games that are intended for use by children who are at least three years old but less than six years of age	NA
4.7	Accessible Edges	PASS
4.8	Projections	NA
4.9	Accessible Points	PASS
4.10	Wires or Rods	NA
4.11	Nails and Fasteners	PASS
4.12	Packaging film	NA
4.13	Folding Mechanisms and Hinges Remark: not applicable because of the weight of part link with hinge is less than 0.5lb.	NA
4.14	Cords ,straps, and Elastics	NA
4.15	Stability and Over-Load Requirements	NA
4.16	Confined Spaces	NA
4.17	Wheels, Tires and Axles <36M	NA
4.18	Holes, Clearance, and Accessibility of Mechanisms	NA
4.19	Simulated Protective Devices	PASS
4.20	Pacifiers	NA
4.21	Projectiles Toys	NA
4.22	Teethers and Teething Toys	NA
4.23	Rattles	NA

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Section	Test Item	Assessment
4.24	Squeeze Toys	NA
4.25	Battery-Operated Toys	NC
4.26	Toys Intended to be Attached to a Crib or Playpen	NA
4.27	Stuffed and Beanbag-Type Toys	NA
4.28	Stroller and Carriage Toys	NA
4.29	Art Materials	NA
4.30	Toy Gun Marking	PASS
4.31	Balloons	NA
4.32	Certain Toys with Spherical Ends	NA
4.33	Marbles	NA
4.34	Balls	NA
4.35	Pompoms	NA
4.36	Hemispheric-Shaped Objects	NA
4.37	Yo Yo elastic tether toys	NA
4.38	Magnets	NA
4.39	Jaw Entrapment in Handles and Steering Wheels	NA
4.40	Expanding Materials	NA
4.41	Toy Chests	NA
5	Safety Labeling Requirements	PASS
5.1	Federal Government Requirements	PASS
5.2	Age Grading Labeling	PASS
5.3	Safety Labeling Requirements	NA
5.4	Aquatic Toys	NA
5.5	Crib and Playpen Toys	NA
5.5.1	Age Grading	NA
5.5.2	Safety Labeling	NA
5.6	Mobiles	NA

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Section	Test Item	Assessment
5.7	Stroller and Carriage Toys	NA
5.8	Toys Intended to be Assembled by an Adult	NA
5.9	Simulated Protective Devices	PASS
5.10	Toys with Functional Sharp Edges and Sharp Points (4-8yrs)	NA
5.11	Small Objects, Small Balls, Marbles, and Balloons	PASS
5.12	Toy Caps	NA
5.13	Art Materials	NA
5.14	Electric Toys	NA
5.16	Promotional Materials	NA
5.17	Magnets	NA
6	Instructional literature	NA
6.1	Definition and Description	NA
6.2	Crib and Playpen Toys	NA
6.3	Mobiles	NA
6.4	Toys Intended to be Assembled by an Adult	NA
6.7	Toys in Contact with Food	NA
6.8	Toy Chests	NA
7	Producer's Markings	PASS
7.1	Producer's Markings	PASS
7.2	Battery-Powered Ride-on Toys	NA
7.3	Toy Chests	NA
8.5	Normal Use Testing	PASS
8.5.1	Washable Test	NA
8.7	Impact Test	PASS
8.8	Torque Test	PASS
8.9	Tension Test	PASS
8.10	Compression Test	NA

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Section	Test Item	Assessment
8.11	Test for Tire Removal and snap-in wheel and axle assembly removal	NA
8.12	Flexure Test	NA
8.13	Test for Mouth-Actuated Toys and Mouth-Actuated Projectile Toys	NA
8.14	Projectiles	NA
8.15	Test for Stability of Ride-on Toys or Toy Seats	NA
8.16	Tension Test for Pompoms	NA
8.20	Tests for Toys Which Produce Noise	PASS
8.21	Dynamic Strength Test for Wheeled Ride-on Toys	NA
8.22	Plastic Film Thickness	NA
8.23	Test for Loops and Cords	NA
8.24	Yoyo Elastic Tether Toy Test Methods	NA
8.25	Magnet Test Methods	NA
8.26	Test Methods for Locking Mechanisms or Other Means	NA
8.27	Test for Toy Chest Lids and Closures	NA
8.28	Test for Overload of Ride-on Toys and Toy Seats	NA
8.29	Stuffing Materials Evaluation	NA
8.30	Expanding Materials Test Method	NA

**Remark:** NC = As per client's requirement, Section 4.25 was not assessed.

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**(2) Flammability – ASTM F963-17 Section 4.2**

Section	Test Item	Assessment
4.2	Flammability	PASS See Note

**Note: Flammability of Solids and Soft Toys – ASTM F963-17(A5)**

Sample	Burn Rate (in./sec.)	Limit (in./sec.)
Toy	0.03	0.1

**Note: Flammability of Fabrics – ASTM F963-17(A6)**

Sample	Clothes(Plain Surface fabrics )	
As Received	1	DNI
	2	DNI
	3	DNI
	4	DNI
	5	DNI
After washing	1	DNI
	2	DNI
	3	DNI
	4	DNI
	5	DNI

- Remark:**
1. DNI = Did Not Ignite
  2. All styles of submitted sample(s) (and its accessories) was/were tested, the above result only showed the most severe burn rate.

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### (3) Total Lead content in paint and surface coating - ASTM F963-17 Section 4.3.5.1

Test Method: With reference to ASTM F963-17 Section 8.3.1, was analyzed by Atomic Absorption Spectrometer (AAS) or Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES).

Material No.	RL (mg/kg)	Limit (mg/kg)	Result (mg/kg)	Conclusion
24+25	10	90	N.D.	PASS
26+27+28	10	90	N.D.	PASS
29+30	10	90	N.D.	PASS
31	10	90	N.D.	PASS

- Note:**
1. mg/kg = milligram per kilogram (ppm).
  2. N.D. = Not Detected (< RL).
  3. RL = Report Limit.

### (4) Total Lead content in substrate material - ASTM F963-17 Section 4.3.5.2

Test Method: With reference to ASTM F963-17 Section 8.3.1, was analyzed by Atomic Absorption Spectrometer (AAS) or Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES).

Material No.	RL (mg/kg)	Limit (mg/kg)	Result (mg/kg)	Conclusion
1+2+3	10	100	N.D.	PASS
4+5+6	10	100	N.D.	PASS
7+8	10	100	N.D.	PASS
9+10	10	100	N.D.	PASS
11+12+13	10	100	N.D.	PASS
14+16+39	10	100	N.D.	PASS
16+17+18	10	100	N.D.	PASS
19+20	10	100	21	PASS
21+22+23	10	100	N.D.	PASS

- Note:**
1. mg/kg = milligram per kilogram (ppm).
  2. N.D. = Not Detected (< RL).
  3. RL = Report Limit.

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## (5) Soluble Heavy Metals content in paint and surface coating - ASTM F963-17 Section 4.3.5.1

Test Method: With reference to ASTM F963-17 Section 8.3.2 to Section 8.3.5, was analyzed by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES).

Elements	Sb	As	Ba	Cd	Cr	Pb	Hg	Se	Conclusion
Limit (mg/kg)	60	25	1000	75	60	90	60	500	
RL (mg/kg)	5	2.5	5	5	5	5	5	5	
Material No.	Result (mg/kg)								
24	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	PASS
25	N.D.	N.D.	N.D.	N.D.	N.D.	8	N.D.	N.D.	PASS
26	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	PASS
27	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	PASS
28	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	PASS
29	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	PASS
30	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	PASS
31	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	PASS

- Note:**
1. mg/kg = milligram per kilogram (ppm).
  2. N.D. = Not Detected (< RL).
  3. RL = Report Limit.
  4. All the reported results of soluble heavy metals are adjusted analytical results with the analytical correction shown in the following table.

Element	Sb	As	Ba	Cd	Cr	Pb	Hg	Se
Analytical correction (%)	60	60	30	30	30	30	50	60

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## (6) Soluble Heavy Metals content in substrate material - ASTM F963-17 Section 4.3.5.2

Test Method: With reference to ASTM F963-17 Section 8.3.2 to Section 8.3.5, was analyzed by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES).

Elements	Sb	As	Ba	Cd	Cr	Pb	Hg	Se	Conclusion
Limit (mg/kg)	60	25	1000	75	60	90	60	500	
RL (mg/kg)	5	2.5	5	5	5	5	5	5	
Material No.	Result (mg/kg)								
1	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	PASS
2	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	PASS
3	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	PASS
4	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	PASS
5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	PASS
6	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	PASS
7	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	PASS
8	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	PASS
9	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	PASS
10	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	PASS
11	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	PASS
12	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	PASS
13	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	PASS
14	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	PASS
15	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	PASS
16	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	PASS
17	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	PASS
18	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	PASS
19	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	PASS
20	N.D.	N.D.	21	N.D.	N.D.	N.D.	N.D.	N.D.	PASS
21	N.D.	N.D.	27	N.D.	N.D.	N.D.	N.D.	N.D.	PASS
22	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	PASS

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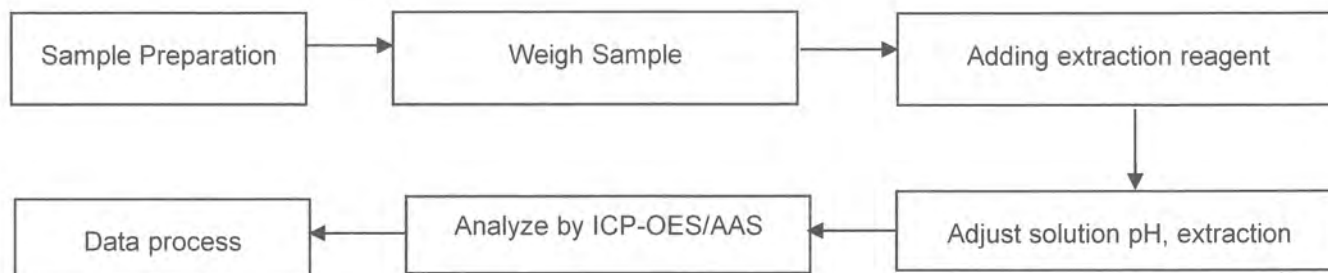
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23	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	PASS
32	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	PASS
33	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	PASS
34	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	PASS
35	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	PASS
36	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	PASS
37	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	PASS
38	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	PASS
39	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	PASS

- Note:**
1. mg/kg = milligram per kilogram (ppm).
  2. N.D. = Not Detected (< RL).
  3. RL = Report Limit.
  4. All the reported results of soluble heavy metals are adjusted analytical results with the analytical correction shown in the following table.

Element	Sb	As	Ba	Cd	Cr	Pb	Hg	Se
Analytical correction (%)	60	60	30	30	30	30	50	60

### Test Flow Chart



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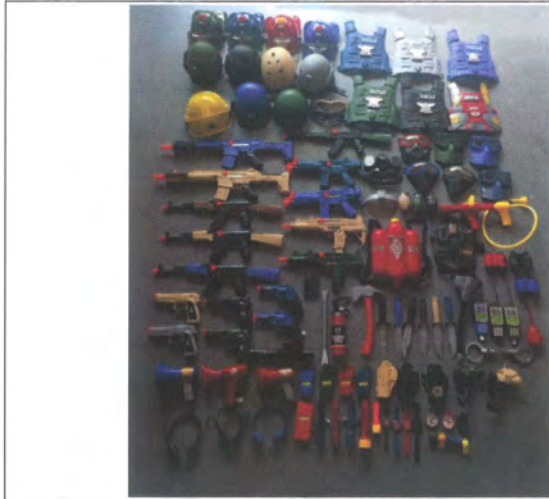
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**Photo(s) of Sample:**

The following photo(s) is(are) provided by the customer



**\*\*\*End of Report\*\*\***

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