



CMA Testing and Certification Laboratories

廠商會檢定中心

TEST REPORT

Report No : AT0015928(3)

Date : 21 Apr 2015

Application No : LT009426(0)

Applicant : YOSHIRITSU CO., LTD.
1563 KOSHIBE, OYODO YOSHINO, NARA 638-0803 JAPAN

Sample Description : Sixty-seven (67) submitted samples stated to be :

- | | <u>Item Name</u> |
|------|---------------------------------------|
| (A) | LaQ Basic 001 |
| (B) | LaQ Basic 011 |
| (C) | LaQ Basic 101 |
| (D) | LaQ Basic 201 |
| (E) | LaQ Basic 311 |
| (F) | LaQ Basic 511 |
| (G) | LaQ Basic 2400 Colors |
| (H) | LaQ Basic 2400 Pastel |
| (I) | LaQ Basic 5000 |
| (J) | LaQ Animal World Chameleon |
| (K) | LaQ Animal World Eagle |
| (L) | LaQ Animal World Alligator |
| (M) | LaQ Animal World Tiger |
| (N) | LaQ Animal World Wild Kingdom |
| (O) | LaQ Marine World Shark |
| (P) | LaQ Marine World Mini Dolphin |
| (Q) | LaQ Marine World Mini Manta |
| (R) | LaQ Marine World Mini Orca |
| (S) | LaQ Marine World Mini Penguin |
| (T) | LaQ Marine World Mini Garden Eel |
| (U) | LaQ Marine World Mini Whale Shark |
| (V) | LaQ Dinosaur World T-Rex |
| (W) | LaQ Dinosaur World Triceratops |
| (X) | LaQ Dinosaur World Mini T-Rex |
| (Y) | LaQ Dinosaur World Mini Triceratops |
| (Z) | LaQ Dinosaur World Mini Stegosaurus |
| (AA) | LaQ Dinosaur World Mini Brachiosaurus |
| (AB) | LaQ Dinosaur World Mini Pteranodon |
| (AC) | LaQ Insect World Beetle |
| (AD) | LaQ Insect World Stag Beetle |
| (AE) | LaQ Sweet Collection Bunny |
| (AF) | LaQ Sweet Collection Teddy |

For and on behalf of
CMA Industrial Development Foundation Limited

Authorized Signature :

Cheung Chok Ming
Deputy Manager
Toys and Material Division

Wan Leong Hang
Deputy Manager
Toys and Material Division

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Sample Description :

Item Name

(AG) LaQ Sweet Collection Flower
(AH) LaQ Sweet Collection Cute House
(AI) LaQ Sweet Collection Dreams
(AJ) LaQ Petite Collection Pudding
(AK) LaQ Petite Collection Kappa
(AL) LaQ Petite Collection Penguin
(AM) LaQ Hamacron Constructor 1 Jet Fighter
(AN) LaQ Hamacron Constructor 2 Race Car
(AO) LaQ Hamacron Constructor 3 Power Digger
(AP) LaQ Hamacron Constructor 4 Fire Truck
(AQ) LaQ Hamacron Mini Racer 4 Orange
(AR) LaQ Hamacron Constructor EXPRESS
(AS) LaQ Pax 8
(AT) LaQ Free Style 100 (Red)
(AU) LaQ Free Style 100 (Blue)
(AV) LaQ Free Style 100 (Yellow)
(AW) LaQ Free Style 100 (Green)
(AX) LaQ Free Style 100 (Pink)
(AY) LaQ Free Style 100 (Sky Blue)
(AZ) LaQ Free Style 100 (Orange)
(BA) LaQ Free Style 100 (Lime)
(BB) LaQ Free Style 100 (Brown)
(BC) LaQ Free Style 100 (White)
(BD) LaQ Free Style 100 (Gray)
(BE) LaQ Free Style 100 (Black)
(BF) KocaLini TEDDY
(BG) KocaLini RABBIT
(BH) KocaLini COCKATIEL
(BI) KocaLini PANDA
(BJ) KocaLini PENGUIN
(BK) KocaLini DOLPHIN
(BL) KocaLini ROSE
(BM) KocaLini SAKURA

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Sample Description : Sample not received

- LaQ Dinosaur World Triceratops and Pteranodon
- LaQ Dinosaur World Stegosaurus
- LaQ Dinosaur World Dino Skeletons
- LaQ Clear Parts Kit
- Insect World Mini Hercules Beetle
- Insect World Mini Rhino Beetle
- Insect World Mini Stag Beetle
- Insect World Butterfly
- Insect World Mantis
- Insect World Scorpion
- Hamacron Constructor Mini Airplane
- Hamacron Constructor Mini Police Car
- Hamacron Constructor Mini Forklift
- Hamacron Constructor Mini Drag Racer
- Hamacron Constructor Mini Scooter
- Hamacron Constructor Mini Off-Roader

Country of Origin : Japan

Requested test part(s) : Refer to page 13 to 14 for details

Date Received : 05 Jan 2015.
09 Mar 2015.
17 Mar 2015.
19 Mar 2015.
14 Apr 2015.

Test Period : 11 Mar 2015 to 21 Apr 2015.

For and on behalf of

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Deputy Manager
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Test Requested : I. Test in accordance with EN71 : Part 1 : 2011 + A3 : 2014 - Physical and Mechanical Properties (excluding Clause 7 for items BF and BG only);
II. Test in accordance with EN71 : Part 2 : 2011 + A1 : 2014- Flammability test;
III. Test in accordance with EN71 : Part 3 : 2013 - Migration of certain elements (Aluminium, Antimony, Arsenic, Barium, Boron, Cadmium, Chromium (III), Chromium (VI), Cobalt, Copper, Lead, Manganese, Mercury, Nickel, Selenium, Strontium, Tin, Organic Tin and Zinc) (for requested test part(s)).

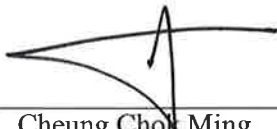
Test Method : As stated in above specifications. Heavy metal analysis was determined by Atomic Absorption Spectrophotometry and/or Inductively Coupled Plasma Spectrometry (ICP-OES) and/or Inductively Coupled Plasma Mass Spectrometry (ICP-MS) and/or Liquid Chromatograph-Inductively Coupled Plasma Mass Spectrometry (LC-ICP-MS).

Test Result : Refer to the results on page 5 to 14.

Conclusion	Test Item	Result
I.	EN71 : Part 1 : 2011 + A3 : 2014 (excluding Clause 7 for items BF and BG only)	Passed
II.	EN71 : Part 2 : 2011 + A1 : 2014	Passed
III.	EN71 : Part 3 : 2013 (for requested test part(s)).	Passed

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Test Result :

Labelled age group : For ages 5 years and up (for items A-U, X-AL, AO-BG only)

Labelled age group : For ages 7 years and up (for items V, W, AM, AN only)

I. EN71 : Part 1 : 2011 + A3 : 2014 (for all items except items BF and BG)

<u>Clause</u>	<u>Title/Description</u>	<u>Remark*</u>
4	General requirements	
4.1	Material cleanliness	C
4.7	Edges	C
4.8	Points and metallic wires	C
6	Packaging	C
7	Warnings, markings and instructions for use	
7.1	General	C
7.2	Toys not intended for children under 36 months	C

I. EN71 : Part 1 : 2011 + A3 : 2014 (for items BF and BG only)

<u>Clause</u>	<u>Title/Description</u>	<u>Remark*</u>
4	General requirements	
4.1	Material cleanliness	C
4.7	Edges	C
4.8	Points and metallic wires	C
7	Warnings, markings and instructions for use	Not Requested



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Test Result :

II. EN71 : Part 2 : 2011 + A1 : 2014 (for all items)

<u>Clause</u>	<u>Title/Description</u>	<u>Remark*</u>
4.1	General requirements	C

Note : No cellulose nitrate and material with same behaviour in fire was detected

* Abbreviation : C = Complied



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Test Result :

III. EN 71 : Part 3 : 2013

Scraped-off toy material

Element	Migration limit (mg/kg)	Result (mg/kg)					
		Sample					
		1	2	3	4	5	6
Aluminium (Al)	70,000	<100	<100	<100	<100	<100	<100
Antimony (Sb)	560	<5	<5	<5	<5	<5	<5
Arsenic (As)	47	<5	<5	<5	<5	<5	<5
Barium (Ba)	18,750	<20	<20	<20	<20	<20	<20
Boron (B)	15,000	<100	<100	<100	<100	<100	<100
Cadmium (Cd)	17	<5	<5	<5	<5	<5	<5
Chromium (III)	460	<1	<1	<1	<1	<1	<1
Chromium (VI)	0.2	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15
Cobalt (Co)	130	<5	<5	<5	<5	<5	<5
Copper (Cu)	7,700	<5	<5	<5	<5	<5	<5
Lead (Pb)	160	<5	<5	<5	<5	<5	<5
Manganese (Mn)	15,000	<100	<100	<100	<100	<100	<100
Mercury (Hg)	94	<5	<5	<5	<5	<5	<5
Nickel (Ni)	930	<5	<5	<5	<5	<5	<5
Selenium (Se)	460	<5	<5	<5	<5	<5	<5
Strontium (Sr)	56,000	<100	<100	<100	<100	<100	<100
Tin (Sn)	180,000	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
Organic tin	12	-	-	-	-	-	-
Zinc (Zn)	46,000	<100	<100	<100	<100	<100	<100



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Element	Migration limit (mg/kg)	Result (mg/kg)					
		Sample					
		7	8	9	10	11	12
Aluminium (Al)	70,000	<100	<100	<100	<100	<100	<100
Antimony (Sb)	560	<5	<5	<5	<5	<5	<5
Arsenic (As)	47	<5	<5	<5	<5	<5	<5
Barium (Ba)	18,750	<20	<20	<20	<20	<20	<20
Boron (B)	15,000	<100	<100	<100	<100	<100	<100
Cadmium (Cd)	17	<5	<5	<5	<5	<5	<5
Chromium (III)	460	<1	<1	<1	<1	<1	<1
Chromium (VI)	0.2	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15
Cobalt (Co)	130	<5	<5	<5	<5	<5	<5
Copper (Cu)	7,700	<5	<5	<5	<5	<5	<5
Lead (Pb)	160	<5	<5	<5	<5	<5	<5
Manganese (Mn)	15,000	<100	<100	<100	<100	<100	<100
Mercury (Hg)	94	<5	<5	<5	<5	<5	<5
Nickel (Ni)	930	<5	<5	<5	<5	<5	<5
Selenium (Se)	460	<5	<5	<5	<5	<5	<5
Strontium (Sr)	56,000	<100	<100	<100	<100	<100	<100
Tin (Sn)	180,000	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
Organic tin	12	-	-	-	-	-	-
Zinc (Zn)	46,000	<100	<100	<100	<100	<100	<100



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Element	Migration limit (mg/kg)	Result (mg/kg)					
		Sample					
		13	14	15	16	17	18
Aluminium (Al)	70,000	<100	<100	<100	<100	<100	<100
Antimony (Sb)	560	<5	<5	<5	<5	<5	<5
Arsenic (As)	47	<5	<5	<5	<5	<5	<5
Barium (Ba)	18,750	<20	<20	<20	<20	<20	<20
Boron (B)	15,000	<100	<100	<100	<100	<100	<100
Cadmium (Cd)	17	<5	<5	<5	<5	<5	<5
Chromium (III)	460	<1	<1	<1	<1	<1	<1
Chromium (VI)	0.2	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15
Cobalt (Co)	130	<5	<5	<5	<5	<5	<5
Copper (Cu)	7,700	<5	<5	<5	<5	<5	<5
Lead (Pb)	160	<5	<5	<5	<5	<5	<5
Manganese (Mn)	15,000	<100	<100	<100	<100	<100	<100
Mercury (Hg)	94	<5	<5	<5	<5	<5	<5
Nickel (Ni)	930	<5	<5	<5	<5	<5	<5
Selenium (Se)	460	<5	<5	<5	<5	<5	<5
Strontium (Sr)	56,000	<100	<100	<100	<100	<100	<100
Tin (Sn)	180,000	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
Organic tin	12	-	-	-	-	-	-
Zinc (Zn)	46,000	<100	<100	<100	<100	<100	<100



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Scraped-off toy material

Element	Migration limit (mg/kg)	Result (mg/kg)					
		Sample					
		19	20	21	22	23	24
Aluminium (Al)	70,000	<100	<100	<100	<100	<100	<100
Antimony (Sb)	560	<5	<5	<5	<5	<5	<5
Arsenic (As)	47	<5	<5	<5	<5	<5	<5
Barium (Ba)	18,750	<20	<20	<20	<20	<20	<20
Boron (B)	15,000	<100	<100	<100	<100	<100	<100
Cadmium (Cd)	17	<5	<5	<5	<5	<5	<5
Chromium (III)	460	<1	<1	<1	<1	<1	<1
Chromium (VI)	0.2	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15
Cobalt (Co)	130	<5	<5	<5	<5	<5	<5
Copper (Cu)	7,700	<5	<5	<5	<5	<5	<5
Lead (Pb)	160	<5	<5	<5	<5	<5	<5
Manganese (Mn)	15,000	<100	<100	<100	<100	<100	<100
Mercury (Hg)	94	<5	<5	<5	<5	<5	<5
Nickel (Ni)	930	<5	<5	<5	<5	<5	<5
Selenium (Se)	460	<5	<5	<5	<5	<5	<5
Strontium (Sr)	56,000	<100	<100	<100	<100	<100	<100
Tin (Sn)	180,000	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
Organic tin	12	-	-	-	-	-	-
Zinc (Zn)	46,000	<100	<100	<100	<100	<100	<100



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Element	Migration limit (mg/kg)	Result (mg/kg)					
		Sample					
		25	26	27	28	29	30
Aluminium (Al)	70,000	<100	<100	<100	<100	<100	<100
Antimony (Sb)	560	<5	<5	<5	<5	<5	<5
Arsenic (As)	47	<5	<5	<5	<5	<5	<5
Barium (Ba)	18,750	<20	<20	<20	<20	<20	<20
Boron (B)	15,000	<100	<100	<100	<100	<100	<100
Cadmium (Cd)	17	<5	<5	<5	<5	<5	<5
Chromium (III)	460	<1	<1	<1	<1	<1	<1
Chromium (VI)	0.2	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15
Cobalt (Co)	130	<5	<5	<5	<5	<5	<5
Copper (Cu)	7,700	<5	<5	<5	<5	<5	<5
Lead (Pb)	160	<5	<5	<5	<5	<5	<5
Manganese (Mn)	15,000	<100	<100	<100	<100	<100	<100
Mercury (Hg)	94	<5	<5	<5	<5	<5	<5
Nickel (Ni)	930	<5	<5	<5	<5	<5	<5
Selenium (Se)	460	<5	<5	<5	<5	<5	<5
Strontium (Sr)	56,000	<100	<100	<100	<100	<100	<100
Tin (Sn)	180,000	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
Organic tin	12	-	-	-	-	-	-
Zinc (Zn)	46,000	<100	<100	<100	<100	<100	<100



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Element	Migration limit (mg/kg)	Result (mg/kg)			
		Sample			
		31	32	33	34
Aluminium (Al)	70,000	<100	<100	<100	<100
Antimony (Sb)	560	<5	<5	<5	<5
Arsenic (As)	47	<5	<5	<5	<5
Barium (Ba)	18,750	<20	<20	<20	<20
Boron (B)	15,000	<100	<100	<100	<100
Cadmium (Cd)	17	<5	<5	<5	<5
Chromium (III)	460	<1	<1	<1	<1
Chromium (VI)	0.2	<0.15	<0.15	<0.15	<0.15
Cobalt (Co)	130	<5	<5	<5	<5
Copper (Cu)	7,700	<5	<5	<5	<5
Lead (Pb)	160	<5	<5	<5	<5
Manganese (Mn)	15,000	<100	<100	<100	<100
Mercury (Hg)	94	<5	<5	<5	<5
Nickel (Ni)	930	<5	<5	<5	<5
Selenium (Se)	460	<5	<5	<5	<5
Strontium (Sr)	56,000	<100	<100	<100	<100
Tin (Sn)	180,000	<2.5	<2.5	<2.5	<2.5
Organic tin	12	-	-	-	-
Zinc (Zn)	46,000	<100	<100	<100	<100

- Note :
- All results are in mg/kg
 - < denotes less than
 - ≥ denotes greater than or equal to
 - For samples of migrated tin content calculated as tributyl tin lower than migration limit of organic tin, no organic tin test was conducted



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Sample	Description	Sample Weight
1	Red plastic of parts of sample A, B, C, D, E, F, G, I, K, N, V, X, Z, AC, AE, AG, AI, AJ, AK, AM, AN, AP, AR, AS, AT	≥100 mg
2	Orange plastic of parts of sample C, H, I, K, M, N, O, Q, S, T, V, Z, AB, AD, AE, AF, AG, AH, AI, AO, AP, AQ, AR, AZ	≥100 mg
3	Yellow plastic of parts of sample A, B, C, D, E, F, G, I, J, K, N, S, W, X, Y, Z, AB, AC, AD, AE, AF, AG, AH, AI, AJ, AK, AL, AM, AN, AO, AP, AR, AS, AV	≥100 mg
4	Lime plastic of parts of sample C, H, I, J, L, T, W, Y, AD, AE, AF, AG, AH, AI, BA	≥100 mg
5	Green plastic of parts of sample A, B, C, D, E, F, G, I, J, L, N, W, Y, AD, AE, AK, AQ, AR, AS, AW	≥100 mg
6	Sky blue plastic of parts of sample C, H, I, N, O, P, Q, S, U, Z, AA, AE, AF, AG, AH, AI, AJ, AK, AM, AN, AO, AP, AQ, AR, AY	≥100 mg
7	Blue plastic of parts of sample A, B, C, F, E, F, G, I, K, N, O, P, Q, R, X, Z, AC, AD, AH, AI, AK, AL, AM, AP, AR, AS, AU	≥100 mg
8	Pink plastic of parts of sample C, H, I, J, M, N, O, Q, V, X, Y, AA, AE, AF, AG, AH, AI, AX	≥100 mg
9	Grey plastic of parts of sample N, T, U, AI, AR, BD	≥100 mg
10	Brown plastic of parts of sample N, AF, AH, AI, AJ, BB	≥100 mg
11	White plastic of parts of sample A, B, C, D, E, F, G, H, I, J, K, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, AD, AE, AF, AG, AH, AI, AJ, AM, AN, AO, AP, AQ, AR, BC	≥100 mg
12	Black plastic of parts of sample A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, X, Y, Z, AA, AB, AC, AD, AF, AI, AK, AM, AN, AO, AP, AQ, AR, BE	≥100 mg
13	Dull light blue plastic of large wheels of sample F, G, H, I, AM, AN, AR	≥100 mg
14	Black plastic of small shaft of sample F, G, H, I, M, T, V, W, AM, AN, AO, AP, AQ, AR	≥100 mg
15	Dull black plastic of large shaft of sample, F, G, H, I, AM, AN, AO, AP, AR	≥100 mg
16	Black plastic of tires of small wheels of sample F, G, H, I, M, T, V, W, AM, AN, AO, AP, AQ, AR	≥100 mg
17	Dull white plastic of main body of wheels of sample F, G, H, I, M, T, V, W, AM, AO, AN, AP, AQ, AR	≥100 mg
18	Blue plastic of tray of sample F	≥100 mg
19	Light green plastic of tray of sample N	≥100 mg
20	Pink plastic of tray of sample AI	≥100 mg



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Sample	Description	Sample Weight
21	Orange plastic of tray of sample AR	≥100 mg
22	White paper with blue, yellow, red and assorted coatings of booklet of sample A to AR	≥100 mg
23	Translucent light blue of cover of box of sample I, H, BF, BG	≥100 mg
24	Translucent plastic of main body of box of sample I, H, BF, BG	≥100 mg
25	Dull white plastic of holder of box of sample I, H, BF, BG	≥100 mg
26	Translucent black plastic sheet of parts of sample BH, BK, BL	≥100 mg
27	Translucent white plastic sheet of parts of sample BI, BK, BL, BM, BN, BO	≥100 mg
28	Clear plastic sheet of parts of sample BL	≥100 mg
29	Translucent sky blue plastic of parts of sample BM	≥100 mg
30	Translucent pink plastic of parts of sample BI, BN, BO	≥100 mg
31	Translucent lime of parts of sample BK, BL, BN	≥100 mg
32	Translucent black plastic of parts of sample BH, BK, BL, BM	≥100 mg
33	Translucent white plastic of parts of sample BJ, BK, BL, BM	≥100 mg
34	Milky white plastic of headband of sample AI	≥100 mg