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**Applicant** : Yoshiritsu Co., Ltd.

1563 Koshibe, Oyodo Yoshino, Nara 638-0803 Japan

Attn: Akie Kawai

**Description of Samples :** Nine styles of submitted sample each in two sets said to be :

(A) Master RED PHOENIX JAN Code: 4952907008282(B) LaQ Sweet Collection JEWEL JAN Code: 4952907008381

(C) LaQ Hamacron Constructor LIGHTNING BLACK

JAN Code: 4952907008459

(D) LaQ Hamacron Constructor STAR BLUE

JAN Code: 4952907008435

(E) LaQ Hamacron Constructor FLAME RED

JAN Code: 4952907008442

(F) LaQ Bonus Set 2023

JAN Code: 4952907008428

(G) Mster TYRANNOID

JAN Code: 4952907008466

(H) LaQ Animal World LION & CHEETAH

JAN Code: 4952907008022
(I) LaQ Ball Joint ROBOT
JAN Code: 4952907008015

Labelled Age Grading : Item A, G: Age 10 years and up

: Item I: Age 7 years and up

: Item B, C, D, E, F, H: Age 5 years

and up

Appropriate Age Grade : Age 5 years and up

Client's Requested Age Grading : Age 5 years and up Tested Age Grade : Age 5 years and up

Country of Origin : Japan

**Date Samples Received**: 2023-10-26

**Date Tested** : 2023-10-26 to 2023-11-03

WONG Wing-cheung, Benny
Authorized Signatory



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**Description of Samples:** Name of Parts:

LaQ RED No.1-7 LaQ BLUE No.1-7 LaQ YELLOW No.1-7 LaQ GREEN No.1-7 LaQ PINK No.1-7 LaO SKY BLUE No.1-

LaQ SKY BLUE No.1-7 LaQ ORANGE No.1-7 LaQ LIME No.1-7 LaQ WHITE No.1-7 LaQ BLACK No.1-7 LaQ BROWN No.1-7 LaQ GRAY No.1-7 LaQ LAVENDER No.1-

LaQ LAVENDER No.1-7 LaQ CLEAR No.1-7 LaQ CLEAR RED No.1-7 LaQ CLEAR BLUE No.1-7 LaQ CLEAR YELLOW No.1-7 LaQ HEADBAND PART

LaQ HAMACRON CONSTRUCTOR WHEEL LaQ HAMACRON CONSTRUCTOR SHAFT

LaQ HAMACRON CONTRSUCTOR MIDDLE SIZE WHEEL

LaQ HAMACRON CONSTRUCTOR LONG SHAFT LaQ HAMACRON CONSTRUCTOR MINI WHEEL LaQ HAMACRON CONSTRUCTOR MINI SHAFT

LaQ BALL JOINT A and B

LaQ CROSS PART RED, YELLOW, WHITE, BLACK

LaQ PAX RED No.1 and No. 2 LaQ PAX YELLOW No.1 and No. 2 LaQ PAX BLUE No.1 and No. 2

LaQ PAX GREEN No.1 and No. 2

LaQ PARTS REMOVER LaQ BLISTER CASE BLUE

LaQ BLISTER CASE PINK LaQ PLASTIC CONTAINER (SMALL)

LaQ PLASTIC CONT AINER (LARGE)

LaQ CASE WHITE (SMALL)

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			Test Item	Result
<b>Test Requested</b>	:	I.	EN71: Part 1: 2014 + A1: 2018 - Physical	Passed
		II.	and Mechanical Properties EN71 : Part 2 : 2020 - Flammability test	Passed
		III.	EN 71-3:2019+A1:2021 - Migration of	Passed
		111.	certain elements (Aluminium, Antimony,	1 asscu
			Arsenic, Barium, Boron, Cadmium,	
			Chromium (III), Chromium (VI), Cobalt,	
			Copper, Lead, Manganese, Mercury,	
			Nickel, Selenium, Strontium, Tin, Organic	
			Tin and Zinc).	
		IV.	Regulation (EC) No. 1907/2006 of the	Passed
			European Parliament and of the Council,	
			Annex XVII, Entry 23 and its amendment	
			Regulation (EU) No. 494/2011 and No.	
			835/2012	
			- Cadmium content (formerly Directive	
			91/338/EEC)	
		V.	European Regulation (EU) No.	Passed
			1907/2006(REACH) Annex XVII Entry 51	
			& 52 and its amendment Commission	
			Regulation (EU) 2018/2005	
		* **	Phthalate content.	
		VI.	ASTM F963-17	D 1
			- Physical and Mechanical Tests	Passed
			- Flammability Test	Passed Passed
		X / I I	- Heavy Elements Test (Clause 4.3.5)	
		VII.	Lead content in accordance with U.S.	Passed
			Consumer Product Safety Improvement Act	
			of 2008 - Sec. 101 : Children's Products	
		VIII.	Containing Lead; Lead Paint Rule  Phthalatas content as required by section	Passed
		v 111.	Phthalates content as required by section 108, USA Consumer Product Safety	1 asseu
			Improvement Act and 16 CFR 1307 and 15	
			U.S. Code § 2057c.	
			0.5. Code § 20576.	

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Test Requested: IX. Total lead content in accordance with Passed

California Proposition 65.

X. Phthalates content in accordance with Passed

California Proposition 65.

**Test Result** : Refer to the result pages for details.



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#### **Test Results:**

#### I. EN71: Part 1: 2014 + A1: 2018

<u>Applicable</u>	<u>Description</u>	Result
<u>clause</u>	•	
4	General requirements	
4.1	Material cleanliness	Pass
4.7	Edges	Pass
4.8	Points and metallic wires	Pass
4.9	Protruding parts	Pass
4.10	Parts moving against each other	
4.10.4	Springs	Pass
6	Packaging	Pass
7	Warnings, markings and instructions for use	*1
7.1	General	Pass
7.2	Toys not intended for children under 36 months	Pass

The manufacturer or his authorized representative or the importer into the community shall in a visible, easily legible and indelible form affix his name and/or trade name and/or mark and address on the toy or on its packaging.

Note:

For numerical result with upper[lower] limit, compliance is deemed to occur if the measured result is under[above] the upper[lower] limit, even when extended upwards [downwards]by the expanded uncertainty with 95% coverage probability.

#### II. <u>EN71 : Part 2 : 2020</u>

<u>Applicable</u>	<u>Title/Description</u>	Result
<u>clause</u>		
4.1	General requirements	Pass

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

Note:

For numerical result with upper[lower] limit, compliance is deemed to occur if the measured result is under[above] the upper[lower] limit, even when extended upwards [downwards]by the expanded uncertainty with 95% coverage probability.



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#### III. <u>EN 71-3:2019+A1:2021</u>

Test Method: Heavy element analysis was determined by Inductively Coupled Plasma Spectrometry (ICP-OES) and/or Inductively Coupled Plasma Mass Spectrometry (ICP-MS) and/or Gas Chromatography Mass Spectrometry (GCMS).

Category III – Scraped-off toy material

Element	Migration limit (mg/kg)	Result (mg/kg)					
	(mg/kg)			San	nple		
		1	2	3	4	5	6
Aluminium (Al)	28130	ND	ND	ND	ND	ND	ND
Antimony (Sb)	560	ND	ND	ND	ND	ND	ND
Arsenic (As)	47	ND	ND	ND	ND	ND	ND
Barium (Ba)	18,750	ND	ND	ND	ND	ND	ND
Boron (B)	15,000	ND	ND	ND	ND	ND	ND
Cadmium (Cd)	17	ND	ND	ND	ND	ND	ND
Chromium (III)	460	BL	BL	BL	BL	BL	BL
Chromium (VI)	0.053	BL	BL	BL	BL	BL	BL
Cobalt (Co)	130	ND	ND	ND	ND	ND	ND
Copper (Cu)	7,700	ND	ND	ND	ND	ND	ND
Lead (Pb)	23	ND	ND	ND	ND	ND	ND
Manganese (Mn)	15,000	ND	ND	ND	ND	ND	ND
Mercury (Hg)	94	ND	ND	ND	ND	ND	ND
Nickel (Ni)	930	ND	ND	ND	ND	ND	ND
Selenium (Se)	460	ND	ND	ND	ND	ND	ND
Strontium (Sr)	56,000	ND	ND	ND	ND	ND	ND
Tin (Sn)	180,000	ND	ND	ND	ND	0.2	ND
Organic tin#	12	ND	ND	ND	ND	0.55	ND
Zinc (Zn)	46,000	ND	ND	ND	ND	ND	ND



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#### III. <u>EN 71-3:2019+A1:2021</u>

Test Method: Heavy element analysis was determined by Inductively Coupled Plasma Spectrometry (ICP-OES) and/or Inductively Coupled Plasma Mass Spectrometry (ICP-MS) and/or Gas Chromatography Mass Spectrometry (GCMS).

Category III – Scraped-off toy material

Element	Migration limit (mg/kg)	Result (mg/kg)			
	(mg/kg)		Sample		
		7	8	9	
Aluminium (Al)	28130	ND	ND	ND	
Antimony (Sb)	560	ND	ND	ND	
Arsenic (As)	47	ND	ND	ND	
Barium (Ba)	18,750	ND	ND	ND	
Boron (B)	15,000	ND	ND	ND	
Cadmium (Cd)	17	ND	ND	ND	
Chromium (III)	460	BL	BL	BL	
Chromium (VI)	0.053	BL	BL	BL	
Cobalt (Co)	130	ND	ND	ND	
Copper (Cu)	7,700	ND	ND	ND	
Lead (Pb)	23	ND	ND	ND	
Manganese (Mn)	15,000	ND	ND	ND	
Mercury (Hg)	94	ND	ND	ND	
Nickel (Ni)	930	ND	ND	ND	
Selenium (Se)	460	ND	ND	ND	
Strontium (Sr)	56,000	ND	ND	ND	
Tin (Sn)	180,000	ND	ND	ND	
Organic tin <sup>#</sup>	12	ND	ND	ND	
Zinc (Zn)	46,000	ND	ND	ND	

Note: • All results are in mg/kg

- < denotes less than
- $\geq$  denotes greater than or equal to
- For samples of migrated chromium content lower than migration limit of chromium (VI), no speciation test for chromium (III) and chromium (VI) were conducted. The results were derived from that of total chromium.
- For samples of migrated tin content calculated as tributyl tin lower than migration limit of organic tin, no organic tin test was conducted. Organic tin results were derived from that of total tin.
- ND = Not detected
- BL = Below Limit

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For specification with upper limit, compliance is deemed to occur if the measured result is under the limit, even extended upwards by the expanded uncertainty with 95% coverage probability.

#### III. EN 71-3:2019+A1:2021

Category III – Scraped-off toy material

Sample	Description	Sample weight
1	Clear parts: transparent orange MABS	≥100 mg
2	Clear parts : transparent blue MABS	≥100 mg
3	Clear parts : transparent green MABS	≥100 mg
4	Jewel: transparent pink PMMA	≥100 mg
5	Jewel: transparent blue PMMA	≥100 mg
6	Jewel: transparent green PMMA	≥100 mg
7	Pull-back parts : black	≥100 mg
8	Parts : brown ABS	≥100 mg
9	Parts : brown POM	≥100 mg

Note:

- The samples with sample weight less than 100 mg, were assumed to be
- # 100 mg in calculation (except glass/ceramic/metallic materials).
  Organic tin compounds under investigation are limited to methyltin, butyltin, dibutyltin, tributyltin, tetrabutyltin, monooctyltin, dioctyltin, dipropyltin, diphenyltin and triphenyltin. Other organic tin compounds may also be present in toys.
- IV. Regulation (EC) No. 1907/2006 of the European Parliament and of the Council, Annex XVII, Entry 23 and its amendment Regulation (EU) No. 494/2011 and No. 835/2012 Cadmium content (formerly Directive 91/338/EEC). (in composite condition)

Test Method: Acid digestion followed by Atomic Absorption Spectrophotometry and/or Inductively Coupled Plasma Spectrometry (ICP-OES) analysis.

#### For plastic material

	Test item
	Total Cadmium
Maximum permissible level (mg/kg)	100
Sample	
1,2,3	<5
4,5,6	<5
7,8,9	<5

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Note: • All results are in mg/kg

denotes less than
denotes composite sample. The results for composite sample are calculated based on the component with the least weight.

For specification with upper limit, compliance is deemed to occur if the measured result is under the limit, even extended upwards by the expanded uncertainty with 95% coverage probability.

IV. Regulation (EC) No. 1907/2006 of the European Parliament and of the Council, Annex XVII, Entry 23 and its amendment Regulation (EU) No. 494/2011 and No. 835/2012 - Cadmium content (formerly Directive 91/338/EEC).

Test Method: Acid digestion followed by Atomic Absorption Spectrophotometry and/or Inductively Coupled Plasma Spectrometry (ICP-OES) analysis.

Sample	Description
1	Clear parts : transparent orange MABS
2	Clear parts : transparent blue MABS
3	Clear parts : transparent green MABS
4	Jewel: transparent pink PMMA
5	Jewel : transparent blue PMMA
6	Jewel: transparent green PMMA
7	Pull-back parts : black
8	Parts : brown ABS
9	Parts : brown POM

V. European Regulation (EU) No. 1907/2006(REACH) Annex XVII Entry 51 & 52 and its amendment Commission Regulation (EU) 2018/2005 — Phthalate content. (in composite condition)

Test Method: Phthalate analysis was determined by Gas Chromatography.

Sample	Phthalates content, %(w/w)						
	DBP	BBP	DEHP	DIBP	DNOP	DINP	DIDP
1,2,3	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
4,5,6	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
7,8,9	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Limit	Individually or in any combination of the					ve total of DNO	
	DBP, BBP DEHP and DIBP shall not be					not be greater tl	
	equal to or greater than 0.1% by mass of				mass of	the plasticised	material.
		the plastici	sed materia	ı <b>l</b> .			



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#### Remark:

- DIDP

DBP = Di-n-butyl phthalate
 BBP = Benzyl-n-butyl phthalate
 DEHP = Di (2-ethylhexyl) phthalate
 DIBP = Diisobutyl phthalate
 DNOP = Di-n-octyl phthalate
 DINP = Diisononyl phthalate

- %(w/w) = percentage weight per weight

= Diisodecyl phthalate

- Method detection limit = 0.01%(w/w)
- The requirements of DNOP, DINP and DIDP are only applicable on tested material which can be placed in the mouth by children.
- For specification with upper limit, compliance is deemed to occur if the measured result is under the limit, even extended upwards by the expanded uncertainty with 95% coverage probability.

Note: • All results are in % w/w

- % w/w denotes percentage by weight
- < denotes less than
- # denotes composite sample. The results for composite sample are calculated based on the component with the least weight.
- DEHP = Di (2-ethylhexyl) Phthalate; DBP = Dibutyl Phthalate; BBP = Butyl Benzyl Phthalate; DINP = Diisononyl Phthalate; DIDP = Diisodecyl Phthalate; DNOP = Di-n-octyl Phthalate
- V. Regulation (EC) No. 1907/2006 of the European Parliament and of the Council, Annex XVII
  - Phthalates contents (formerly Directive 2005/84/EC)

Test Method: Phthalate analysis was determined by Gas Chromatography.

Sample	Description
1	Clear parts: transparent orange MABS
2	Clear parts: transparent blue MABS
3	Clear parts: transparent green MABS
4	Jewel: transparent pink PMMA
5	Jewel: transparent blue PMMA
6	Jewel: transparent green PMMA
7	Pull-back parts: black
8	Parts : brown ABS
9	Parts : brown POM



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### VI. <u>ASTM F963-17</u>

#### a. Physical and Mechanical Tests

<u>Applicable</u>	<u>Description</u>	<u>Result</u>
<u>clause</u>		
4.1	Material Quality – Visual Inspection	Pass
4.2	Flammability	Pass
4.3	Toxicology	Pass
4.6	Small objects	Pass
4.7	Accessible edges	Pass
	16 CFR 1500.49 Sharp metal or glass edges	
4.9	Accessible points	Pass
	16 CFR 1500.48 Sharp points	
4.12	Plastic film	Pass
4.17	Wheels, tires and axles	Pass
5	<u>Labeling requirements</u>	
5.1	Federal; government requirements	Pass
5.2	Age grading labeling	Pass
5.3	Safety labeling requirements	Pass
5.11	Small objects, small balls, marbles and balloons	Pass
7	Producer's markings	
7.1	Producer's markings	Pass

Remark: The sample(s) were subjected to the normal use and abuse tests in according with Clause 8.5 Normal Use Testing, 8.7 Impact test, 8.8 Torque test, 8.9 Tension test, 8.10 Compression test and 8.12 Flexure test whichever was applicable. Use and abuse test criteria:

Note: For numerical result with upper[lower] limit, compliance is deemed to occur if the measured result is under[above] the upper[lower] limit, even when extended upwards [downwards] by the expanded uncertainty with 95% coverage probability.



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Test	Age Category, months	Test Parameters	16 CFR Reference
Drop test	0 to 18	10 x 4.5 ft	1500.51(b)(3)
•	over 18 to 36	4 x 3 ft	1500.52(b)(3)
	over 36 to 96	4 x 3 ft	1500.53(b)(3)
Tip over test	-	3 times	1500.51/52/53 (b)(4)
Tumble test	-	2 x 4 attitudes	-
Steel ball impact test	-	50 inches	-
Torque test	0 to 18	2 in-lbf	1500.51(e)
	over 18 to 36	3 in-lbf	1500.52(e)
	over 36 to 96	4 in-lbf	1500.53(e)
Tension test	0 to 18	10 lbf	1500.51(f)
	over 18 to 36	15 lbf	1500.52(f)
	over 36 to 96	15 lbf	1500.53(f)
Compression test	0 to 18	20 lbf	1500.51(g)
	over 18 to 36	25 lbf	1500.52(g)
_	over 36 to 96	30 lbf	1500.53(g)
Flexure test	0 to 18	120 x 30 cycles (10 lbf)	1500.51(d)
	over 18 to 36	120 x 30 cycles (15 lbf)	1500.52(d)
	over 36 to 96	120 x 30 cycles (15 lbf)	1500.53(d)

### b. Flammability Test

<u>Applicable</u>	Description	Result
<u>clause</u>		
4.2	Flammability	Pass
	Materials other than textiles (16 CFR 1500.3 (c) (6)	
	(vi)) Test method : Annex A5 (16 CFR 1500.44)	



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VI. ASTM F963-17

Heavy element

Ref.: ASTM F963-17 Section 4.3.5 Method: ASTM F963-17 Section 8.3

Determined by: Inductively Coupled Argon Plasma Atomic Emission

Spectrophotometer

	Test Item
	Total Lead
Permissible Limit (ppm)	100
Sample	
1	<10
2	<10
3	<10
4	<10
5	<10
6	<10
7	<10
8	<10
9	<10

#### Note:

- All results are in ppm
- denotes less than
  # dam
- denotes composite sample. The results for composite sample are calculated based on the component with the least weight.
- For specification with upper limit, compliance is deemed to occur if the measured result is under the limit, even extended upwards by the expanded uncertainty with 95% coverage probability.



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VI. <u>ASTM F963-17</u>

Heavy element

Ref.: ASTM F963-17 Section 4.3.5 Method: ASTM F963-17 Section 8.3

Determined by: Inductively Coupled Argon Plasma Atomic Emission

Spectrophotometer

Sample	Description
1	Clear parts: transparent orange MABS
2	Clear parts: transparent blue MABS
3	Clear parts: transparent green MABS
4	Jewel: transparent pink PMMA
5	Jewel: transparent blue PMMA
6	Jewel: transparent green PMMA
7	Pull-back parts : black
8	Parts : brown ABS
9	Parts : brown POM

#### VI. <u>ASTM F963-17</u>

Heavy element

Ref.: ASTM F963-17 Section 4.3.5 Method: ASTM F963-17 Section 8.3

Determined by: Inductively Coupled Argon Plasma Atomic Emission

Spectrophotometer

		Test Item							
	As	Hg	Se	Cd	Sb	Pb	Cr	Ba	
Maximum Permissible Level (ppm)	25	60	500	75	60	90	60	1000	
Sample									
1	<5	<5	<5	<5	<5	<5	<5	<20	
2	<5	<5	<5	<5	<5	<5	<5	<20	
3	<5	<5	<5	<5	<5	<5	<5	<20	
4	<5	<5	<5	<5	<5	<5	<5	<20	
5	<5	<5	<5	<5	<5	<5	<5	<20	
6	<5	<5	<5	<5	<5	<5	<5	<20	
7	<5	<5	<5	<5	<5	<5	<5	<20	
8	<5	<5	<5	<5	<5	<5	<5	<20	
9	<5	<5	<5	<5	<5	<5	<5	<20	

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Note: • All results are in ppm

• ppm denotes part per million by weight

• < denotes less than

•  $\geq$  denotes greater than or equal to

• As = Arsenic; Hg = Mercury; Se = Selenium; Cd = Cadmium; Sb = Antimony; Pb = Lead; Cr = Chromium; Ba = Barium

• For specification with upper limit, compliance is deemed to occur if the measured result is under the limit, even extended upwards by the expanded uncertainty with 95% coverage probability.

#### VI. ASTM F963-17

Heavy element

Ref.: ASTM F963-17 Section 4.3.5 Method: ASTM F963-17 Section 8.3

Determined by: Inductively Coupled Argon Plasma Atomic Emission

Spectrophotometer

Sample	Description	Sample weight
1	Clear parts: transparent orange MABS	≥100 mg
2	Clear parts: transparent blue MABS	≥100 mg
3	Clear parts: transparent green MABS	≥100 mg
4	Jewel: transparent pink PMMA	≥100 mg
5	Jewel: transparent blue PMMA	≥100 mg
6	Jewel: transparent green PMMA	≥100 mg
7	Pull-back parts : black	≥100 mg
8	Parts : brown ABS	≥100 mg
9	Parts : brown POM	≥100 mg



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VII. Children's products containing lead - Total lead content in substrate

(in composite condition)

Ref.: CPSIA Sec 101(a) and 15 U.S. Code § 1278a.

Test method: Standard operation procedure for determining total lead (Pb) in

non-metal children's products, CPSC-CH-E1002-08.3

Test method: Standard operation procedure for determining total lead (Pb) in metal

children's products, CPSC-CH-E1001-08.3

Determined by: Inductively Coupled Argon Plasma Atomic Emission

Spectrophotometer

### For materials and substrate

	Test Item
	Total Lead
Permissible Limit (mg/kg)	100
Sample	
1,2,3	<10
4,5,6	<10
7,8,9	<10

Note: • All results are in mg/kg

- < denotes less than
- #denotes composite sample. The results for composite sample are calculated based on the component with the least weight.
- For specification with upper limit, compliance is deemed to occur if the measured result is under the limit, even extended upwards by the expanded uncertainty with 95% coverage probability.



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VII. Children's products containing lead - Total lead content in substrate

Ref.: CPSIA Sec 101(a) and 15 U.S. Code § 1278a.

Test method: Standard operation procedure for determining total lead (Pb) in

non-metal children's products, CPSC-CH-E1002-08.3

Test method: Standard operation procedure for determining total lead (Pb) in metal

children's products, CPSC-CH-E1001-08.3

Determined by: Inductively Coupled Argon Plasma Atomic Emission

Spectrophotometer

Sample	Description
1	Clear parts: transparent orange MABS
2	Clear parts : transparent blue MABS
3	Clear parts: transparent green MABS
4	Jewel: transparent pink PMMA
5	Jewel: transparent blue PMMA
6	Jewel: transparent green PMMA
7	Pull-back parts : black
8	Parts : brown ABS
9	Parts : brown POM

VIII. <u>Phthalates content</u> (in composite condition)

Ref.: CPSIA Sec. 108 & 16 CFR 1307 and 15 U.S. Code § 2057c.

Test method: CPSC-CH-C1001-09.4 by Gas Chromatography with Mass Selective

Detector

Sample No.		Phthalates content, %(w/w)								
	DBP	BBP	DEHP	DINP	DHEXP	DIBP	DPENP	DCHP	DNOP	DIDP
1,2,3	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
4,5,6	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
7,8,9	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Limit	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	See N	lote



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#### Remark:

**DBP** =Di-n-butyl phthalate BBP =Benzyl-n-butyl phthalate = Di (2-ethylhexyl) phthalate **DEHP DNOP** = Di-n-octyl phthalate = Diisononyl phthalate DINP DIDP = Diisodecyl phthalate DHEXP =Di-n-hexyl phthalate =Diisobutyl phthalate DIBP **DPENP** =Di-n-pentyl phthalate **DCHP** =Dicyclohexyl phthalate %(w/w) =percentage weight per weight

Note: The results of DNOP and DIDP are for reference only.

Note: • All results are in % w/w

- % w/w denotes percentage by weight
- < denotes less than
- # denotes composite sample. The results for composite sample are calculated based on the component with the least weight
- For specification with upper limit, compliance is deemed to occur if the measured result is under the limit, even extended upwards by the expanded uncertainty with 95% coverage probability.

#### VIII. Phthalates content

Ref.: CPSIA Sec. 108 & 16 CFR 1307 and 15 U.S. Code § 2057c. Test method: CPSC-CH-C1001-09.4 by Gas Chromatography with Mass Selective Detector

Sample	Description
1	Clear parts: transparent orange MABS
2	Clear parts: transparent blue MABS
3	Clear parts: transparent green MABS
4	Jewel: transparent pink PMMA
5	Jewel: transparent blue PMMA
6	Jewel: transparent green PMMA
7	Pull-back parts : black
8	Parts : brown ABS
9	Parts : brown POM



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IX. <u>California Proposition 65: Lead content</u>

Ref.: Proposition 65 list of chemicals.

Determined by: Inductively Coupled Argon Plasma Atomic Emission Spectrophotometer

#### For materials and substrate

	Test Item
	Total Lead
Permissible Limit (mg/kg)	100
Sample	
1	<10
2	<10
3	<10
4	<10
5	<10
6	<10
7	<10
8	<10
9	<10

Note: • All results are in mg/kg

- < denotes less than
- denotes composite sample. The results for composite sample are calculated based on the component with the least weight.
- For specification with upper limit, compliance is deemed to occur if the measured result is under the limit, even extended upwards by the expanded uncertainty with 95% coverage probability.



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IX. California Proposition 65: Lead content

Ref.: Proposition 65 list of chemicals.

Determined by: Inductively Coupled Argon Plasma Atomic Emission Spectrophotometer

Sample	Description
1	Clear parts: transparent orange MABS
2	Clear parts : transparent blue MABS
3	Clear parts: transparent green MABS
4	Jewel: transparent pink PMMA
5	Jewel: transparent blue PMMA
6	Jewel: transparent green PMMA
7	Pull-back parts : black
8	Parts : brown ABS
9	Parts : brown POM

### X. <u>California Proposition 65: Phthalates content</u> (in composite condition)

Ref.: Proposition 65 list of chemicals.

Determined by: Gas Chromatography Mass Spectrometer

Sample No.			Phthalates c	ontent, %(w/w	·)	
	DBP	BBP	DEHP	DNHP	DINP	DIDP
1,2,3	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
4,5,6	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
7,8,9	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Limit	0.1	0.1	0.1	0.1	0.1	0.1

#### Remark:

- Method detection limit = 0.01%(w/w)
- %(w/w) =percentage weight per weigh
- The above limit was quoted from the requirement stated in Alameda Superior Court, BG-07-350969.
- DBP = Di-n-butyl phthalate
- BBP = Benzyl-n-butyl phthalate
- DEHP = Di (2-ethylhexyl) phthalate
- DNHP = Di-n-hexyl phthalate
- DINP = Diisononyl phthalate
- DIDP = Diisodecyl phthalate
- For specification with upper limit, compliance is deemed to occur if the measured result is under the limit, even extended upwards by the expanded uncertainty with 95% coverage probability.

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Note: • All results are in % w/w

• % w/w denotes percentage by weight

• < denotes less than

• # denotes composite sample. The results for composite sample are calculated based on the component with the least weight

• For specification with upper limit, compliance is deemed to occur if the measured result is under the limit, even extended upwards by the expanded uncertainty with 95% coverage probability.

#### X. <u>California Proposition 65: Phthalates content</u>

Ref.: Proposition 65 list of chemicals.

Determined by: Gas Chromatography Mass Spectrometer

Sample	Description
1	Clear parts : transparent orange MABS
2	Clear parts : transparent blue MABS
3	Clear parts: transparent green MABS
4	Jewel: transparent pink PMMA
5	Jewel: transparent blue PMMA
6	Jewel: transparent green PMMA
7	Pull-back parts : black
8	Parts : brown ABS
9	Parts : brown POM



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#### **Appendix for Photos of the Submitted Sample**





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For Conditions of Issuance of this test report, please refer to "Conditions of Issuance of Test Reports" section or Website.



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

### **Conditions of Issuance of Test Reports**

- 1. All samples and goods are accepted by The Hong Kong Standards & Testing Centre Limited (the "Company") solely for testing and reporting in accordance with the following terms and conditions. The Company provides its services on the basis that such terms and conditions constitute express agreement between the Company and any person, firm or company requesting its services (the "Clients").
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- 11. Subject to the variable length of retention time for test data and report stored hereinto as to otherwise specifically required by individual accreditation authorities, the Company will only keep the supporting test data and information of this test report for a period of three years. The data and information will be disposed of after the aforementioned retention period has elapsed. Under no circumstances shall we provide any data and information which has been disposed of after the retention period. Under no circumstances shall we be liable for damages of any kind, including (but not limited to) compensatory damages, lost profits, lost data, or any form of special, incidental, indirect, consequential or punitive damages of any kind, whether based on breach of contract of warranty, tort (including negligence), product liability or otherwise, even if we are informed in advance of the possibility of such damages.
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