RELIABLE TES	TING FOR IRUS
(K)	T)
BEST SERVICE	
12 miles	June

Test Report



Report No: BSTDG214239486092714CR

Date:Sep.27, 2023

page 1 of 15

Applicant Address Manufacturer Address SHANTOU CHENGHAI DISTRICT SHENGYU TOY FACTORY
CHENGHAI DISTRICT, SHANTOU CITY, GUANGDONG PROVINCE, CHINA
SHANTOU CHENGHAI DISTRICT SHENGYU TOY FACTORY
CHENGHAI DISTRICT, SHANTOU CITY, GUANGDONG PROVINCE, CHINA

The following sample(s) was /were submitted and identified on behalf of the clients as:

Sample Name	: Educational toy
Sample Model	: See the next page
Labeled Age Grading :	3+
Requested Age Grading:	3+
Age group applied in testing:	3+
Sample Received Date	: Sep.20, 2023
Testing Period	: Sep.20, 2023 To Sep.27, 2023
Test Requested	: Selected test (s) in the selected parts as requested by client.
	: EN71-1:2014+A1:2018 Physical and Mechanical Requirements,
Test Method	EN71-2:2020 Flammability Requirements,
	EN71-3:2019+A1:2021 Migration of Certain Elements.
Test Result	: Pass test
	SUMMARY OF TEST RESULTS

TEST REQUESTED	CONCLUSION
Mechanical and physical properties - European standard EN 71- 1:2014+A1:2018	PASS
Flammability - European standard EN 71-2:2020	PASS
Migration of Certain Elements - European standard EN 71-3:2019+A1:2021	PASS

Test Result: Please refer to next page(s).

Strictly revise forbid

Signed for and on behalf of



Richard LUO- Approved Signator

r6GenT

uAgfqM

This report shall not be altered, increased or deleted. The results shown in this test report refer only to the sample(s) tested. Without written approval of BST, this test report shall not be copied except in full and published as advertisement. BST Physical & Chemical Lab.

Dongguan BST Testing Co., Ltd.



Test Report

Report No: BSTDGN16235334060944CR

Date:Sep.27, 2023

Page 2 of 15

Test Model:

689A, 689A-1, 689B, 689B-1, 833, 833-1, 835, 835-1, 838, 838-1, 839, 839-1, 839-2, 839-3, 839-4, 839-5, 839-6, 840, 840-1, 841, 841-1, 842, 842-1, 842-2, 842-3, 842-4, 842-5, 843, 843-1, 843-2, 843-3, 845, 845-1, 845-2, 845-3, 846, 846-1, 846-2, 846-3, 848, 848-1, 848-2, 848-3, 849, 849-1, 849-2, 849-3, 850, 850-1, 850-2, 850-3, 851, 852, 853, 855, 856, 858, 859, 860, 840A, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830,

This report shall not be altered, increased or deleted. The results shown in this test report refer only to the sample(s) tested. Without written approval of BST, this test report shall not be copied except in full and published as advertisement. BST Chemical Lab.

Dongguan BST Testing Co., Ltd.



Report No: BSTDGN16235334060944CR

Date:Sep.27, 2023

Page 3 of 15

Test Result:

1. Mechanical and Physical Test

As per European standard on safety of toys EN 71-1:2014+A1:2018,

Applicant's specified age group for testing: 3+

Clause	Testing items	Assessment		
4	General requirements			
4.1	Material cleanliness	Р		
4.2	Assembly	Р		
4.3	Flexible plastic sheeting	NA		
4.4	Toy bags	NA		
4.5	Glass	NA		
4.6	Expanding materials	Р		
4.7	Edges	Р		
4.8	Points and metallic, wires	Р		
4.9	Protruding parts	Р		
4.10	Parts moving against each other	Р		
4.10.1	Folding and sliding mechanisms	NA		
4.10.2	Driving mechanisms	Р		
4.10.3	Hinges	NA		
4.10.4	Springs	NA		
4.11	Mouth-actuated toys and other toys intended to be put in the mouth	NA		
4.12	Balloons	NA		
4.13	Cords of toy kites and other flying toys	NA		
4.14	Enclosures	NA		
4.14.1	Toys which a child can enter	NA		
4.14.2	Masks and helmets	NA		
4.15	Toys intended to bear the mass of a child	NA		
4.15.1	Toys propelled by a child or by other means	NA		
4.15.2	Toy bicycles	NA		

This report shall not be altered, increased or deleted. The results shown in this test report refer only to the sample(s) tested. Without written approval of BST, this test report shall not be copied except in full and published as advertisement. BST Chemical Lab.

I

Dongguan BST Testing Co., Ltd.



Rej	Page 4 of 15	
Clause	Testing items	Assessment
4.15.3	Rocking horses and similar toys	NA
4.15.4	Toys not propelled by a child	NA
4.15.5	Toy scooters	NA
4.16	Heavy immobile toys	NA
4.17	Projectiles	NA
4.17.1	General	NA
4.17.2	Projectile toys without stored energy	NA
4.17.3	Projectile toys with stored energy	NA
4.17.4	Bows and arrows	NA
4.18	Aquatic toys and inflatable toys	NA
4.19	Percussion caps specifically designed for use in toys and toys using percussion caps	NA
4.20	Acoustics	NA
4.21	Toys containing a non-electrical heat source	NA
4.22	Small balls	NA
4.23	Magnets	NA
4.23.1	General	NA
4.23.2	.23.2 Toys other than magnetic/electrical experimental sets intended for children over 8 years	
4.23.3	Magnetic/electrical experimental sets intended for children over 8 years	NA
4.24	Yo-yo balls	NA
4.25	Toys attached to food	NA
5	Toys intended for children under 36 months	NA
5.1	General requirements	Р
5.2	Soft-filled toys and soft-filled parts of a toy	NA
5.3	Plastic sheeting	NA
5.4	Cords, chains and electrical cables in toys	Р
5.5	Liquid-filled toys	NA
5.6	Speed limitation of electrically-driven ride-on toys	NA
5.7	Glass and porcelain	NA

This report shall not be altered, increased or deleted. The results shown in this test report refer only to the sample(s) tested. Without written approval of BST, this test report shall not be copied except in full and published as advertisement. BST Chemical Lab.

T

Dongguan BST Testing Co., Ltd.



Rej	port No: BSTDGN16235334060944CR Date:Sep.27, 2023	Page 5 of 15
Clause	Testing items	Assessment
5.8	Shape and size of certain toys	Р
5.9	Toys comprising monofilament fibres	NA
5.10	Small balls	NA
5.11	Play figures	NA
5.12	Hemispheric-shaped toys	NA
5.13	Suction cups	NA
5.14	Straps intended to be worn fully or partially around the neck	NA
6	Packaging	Р
7	Warnings, markings and instructions for use	Р
7.1	General	NA
7.2	Toys not intended for children under 36 months	р
7.3	Latex balloons	NA
7.4	Aquatic toys	NA
7.5	Functional toys	Р
7.6	Hazardous sharp functional edges and points	Р
7.7	Projectiles	NA
7.7.1	7.1 Toys with projectiles which are able to discharge an object other than that provided with the toy	
7.7.2	Toys capable of discharging a projectile with a kinetic energy greater than 0.08 j	NA
7.8	Imitation protective masks and helmets	NA
7.9	Toy kites	NA
7.10	Roller skates, inline skates, skateboards and certain other ride-on toys	NA
7.10.1	Roller skates, inline skates and skateboards	NA
7.10.2	Ride-on toys without a braking device	NA
7.10.3	Electrically-driven ride-on toys	NA
7.10.4	Instructions for use	Р
7.11	Toys intended to be attached to or strung across a cradle, cot, or perambulator	NA
7.12	Liquid-filled teethers	NA

This report shall not be altered, increased or deleted. The results shown in this test report refer only to the sample(s) tested. Without written approval of BST, this test report shall not be copied except in full and published as advertisement. BST Chemical Lab.

T

Dongguan BST Testing Co., Ltd.



Rep	ort No: BSTDGN16235334060944CR Date:Sep.27, 2023	Page 6 of 15
Clause	Testing items	Assessment
7.13	Percussion caps specifically designed for use in toys	NA
7.14	Acoustics	NA
7.15	Toy bicycles	NA
7.16	Toys intended to bear the mass of a child	NA
7.17	Toys comprising monofilament fibers	Р
7.18	Toy scooters	NA
7.19	Rocking horses and similar toys	NA
7.20	Magnetic/electrical experimental sets	NA
7.21	Toys with electrical cables exceeding 300 mm in length	Р
7.22	Toys with cords or chains intended for children of 18 months and over but under 36months	NA
Remark :	1. P=Pass, 2. NA= Not Applicable, 3. F=Fail	

This report shall not be altered, increased or deleted. The results shown in this test report refer only to the sample(s) tested. Without written approval of BST, this test report shall not be copied except in full and published as advertisement. BST Chemical Lab.

T

Dongguan BST Testing Co., Ltd.



Report No: BSTDGN16235334060944CR

Date:Sep.27, 2023

Page 7 of 15

2. Flammability Test

As per European standard on safety of toys EN 71 PART 2:2020

Clause	Testing Items	Assessment
4.1	General	Р
4.2	Toys to be worn on the head	NA
4.3	Toy disguise costumes and toys intended To be worn by a child in play	NA
4.4	Toys intend to be entered by a child	NA
4.5	Soft filler toys(animal and dolls etc.) With a piled or textile surface	Р
Remark :	1. $P = Pass; 2. NA = Not applicable.$	

This report shall not be altered, increased or deleted. The results shown in this test report refer only to the sample(s) tested. Without written approval of BST, this test report shall not be copied except in full and published as advertisement. BST Chemical Lab.

Dongguan BST Testing Co., Ltd.



Report No: BSTDGN16235334060944CR

Date:Sep.27, 2023

Page 8 of 15

3. Migration Of Certain Elements

Test Method: As per European standard on safety of toys EN 71-3:2019+A1:2021

Sample Description:

No.	Description	Name
1.	plastic	Lotus root pink plastic
2.	plastic	White plastic
3.	plastic	Black plastic
4.	plastic	transparent plastic
5.	plastic	Soil yellow plastic
6.	wool	Rose red rope
7.	wool	Grey rope
8.	plastic	Transparent soft material
9.	paper	paster
10.	coating	Black coating

This report shall not be altered, increased or deleted. The results shown in this test report refer only to the sample(s) tested. Without written approval of BST, this test report shall not be copied except in full and published as advertisement. BST Chemical Lab.

Dongguan BST Testing Co., Ltd.



Report No: BSTDGN16235334060944CR

Date:Sep.27, 2023

Page 9 of 15

The Result (No.1~No.5):

Migration test

Test Item(s)	Unit	Result	MDL	Limit
Soluble Aluminium (Al)	mg/kg	N.D.	50	70000
Soluble Antimony(Sb)	mg/kg	N.D.	1.0	560
Soluble Arsenic(As)	mg/kg	N.D.	0.5	47
Soluble Barium(Ba)	mg/kg	N.D.	50	18750
Soluble Boron(B)	mg/kg	N.D.	50	15000
Soluble Cadmium(Cd)	mg/kg	N.D.	0.3	17
Soluble Chromium(III)(Cr III)	mg/kg	N.D.	5	460
Soluble Chromium(VI) (Cr VI)	mg/kg	N.D.	0.005	0.2
Soluble Cobalt(Co)	mg/kg	N.D.	0.5	130
Soluble Copper(Cu)	mg/kg	N.D.	50	7700
Soluble Lead(Pb)	mg/kg	N.D.	0.5	23
Soluble Manganese(Mn)	mg/kg	N.D.	50	15000
Soluble Mercury(Hg)	mg/kg	N.D.	0.5	94
Soluble Nickel(Ni)	mg/kg	N.D.	10	930
Soluble Selenium(Se)	mg/kg	N.D.	0.08	460
Soluble Strontium(Sr)	mg/kg	N.D.	5.0	56000
Soluble Tin(Sn)	mg/kg	N.D.	50	180000
Organic tin	mg/kg	N.D.	0.5	12
Soluble Zinc(Zn)	mg/kg	N.D.	0.08	46000

Organic tin test

Test Item(s)	Unit	Result	MDL	Limit
Methyltin	mg/kg	N.D.	0.5	
Butyltin	mg/kg	N.D.	0.5	
Tributyltin	mg/kg	N.D.	0.5	
MonoDecyltin	mg/kg	N.D.	0.5	
DiDecyltin	mg/kg	N.D.	0.5	12
Dibutyltin	mg/kg	N.D.	0.5	12
Dipropyltin	mg/kg	N.D.	0.5	
Tetrabutyltin	mg/kg	N.D.	0.5	
Diphenyltin	mg/kg	N.D.	0.5	
Triphenyltin	mg/kg	N.D.	0.5	

This report shall not be altered, increased or deleted. The results shown in this test report refer only to the sample(s) tested. Without written approval of BST, this test report shall not be copied except in full and published as advertisement. BST Chemical Lab.

Dongguan BST Testing Co., Ltd.



Report No: BSTDGN16235334060944CR

Date:Sep.27, 2023

Page 10 of 15

The Result (No.6~No.7):

Migration test

Test Item(s)	Unit	Result	MDL	Limit
Soluble Aluminium (Al)	mg/kg	N.D.	50	70000
Soluble Antimony(Sb)	mg/kg	N.D.	1.0	560
Soluble Arsenic(As)	mg/kg	N.D.	0.5	47
Soluble Barium(Ba)	mg/kg	N.D.	50	18750
Soluble Boron(B)	mg/kg	N.D.	50	15000
Soluble Cadmium(Cd)	mg/kg	N.D.	0.3	17
Soluble Chromium(III)(Cr III)	mg/kg	N.D.	5	460
Soluble Chromium(VI) (Cr VI)	mg/kg	N.D.	0.005	0.2
Soluble Cobalt(Co)	mg/kg	N.D.	0.5	130
Soluble Copper(Cu)	mg/kg	N.D.	50	7700
Soluble Lead(Pb)	mg/kg	N.D.	0.5	23
Soluble Manganese(Mn)	mg/kg	N.D.	50	15000
Soluble Mercury(Hg)	mg/kg	N.D.	0.5	94
Soluble Nickel(Ni)	mg/kg	N.D.	10	930
Soluble Selenium(Se)	mg/kg	N.D.	0.08	460
Soluble Strontium(Sr)	mg/kg	N.D.	5.0	56000
Soluble Tin(Sn)	mg/kg	N.D.	50	180000
Organic tin	mg/kg	N.D.	0.5	12
Soluble Zinc(Zn)	mg/kg	N.D.	0.08	46000

Organic tin test

Test Item(s)	Unit	Result	MDL	Limit
Methyltin	mg/kg	N.D.	0.5	
Butyltin	mg/kg	N.D.	0.5	
Tributyltin	mg/kg	N.D.	0.5	
MonoDecyltin	mg/kg	N.D.	0.5	
DiDecyltin	mg/kg	N.D.	0.5	12
Dibutyltin	mg/kg	N.D.	0.5	12
Dipropyltin	mg/kg	N.D.	0.5	
Tetrabutyltin	mg/kg	N.D.	0.5	
Diphenyltin	mg/kg	N.D.	0.5	
Triphenyltin	mg/kg	N.D.	0.5	

This report shall not be altered, increased or deleted. The results shown in this test report refer only to the sample(s) tested. Without written approval of BST, this test report shall not be copied except in full and published as advertisement. BST Chemical Lab.

Dongguan BST Testing Co., Ltd.



Report No: BSTDGN16235334060944CR

Date:Sep.27, 2023

Page 11 of 15

The Result (No.8):

Migration test

Test Item(s)	Unit	Result	MDL	Limit
Soluble Aluminium (Al)	mg/kg	N.D.	50	70000
Soluble Antimony(Sb)	mg/kg	N.D.	1.0	560
Soluble Arsenic(As)	mg/kg	N.D.	0.5	47
Soluble Barium(Ba)	mg/kg	N.D.	50	18750
Soluble Boron(B)	mg/kg	N.D.	50	15000
Soluble Cadmium(Cd)	mg/kg	N.D.	0.3	17
Soluble Chromium(III)(Cr III)	mg/kg	N.D.	5	460
Soluble Chromium(VI) (Cr VI)	mg/kg	N.D.	0.005	0.2
Soluble Cobalt(Co)	mg/kg	N.D.	0.5	130
Soluble Copper(Cu)	mg/kg	N.D.	50	7700
Soluble Lead(Pb)	mg/kg	N.D.	0.5	23
Soluble Manganese(Mn)	mg/kg	N.D.	50	15000
Soluble Mercury(Hg)	mg/kg	N.D.	0.5	94
Soluble Nickel(Ni)	mg/kg	N.D.	10	930
Soluble Selenium(Se)	mg/kg	N.D.	0.08	460
Soluble Strontium(Sr)	mg/kg	N.D.	5.0	56000
Soluble Tin(Sn)	mg/kg	N.D.	50	180000
Organic tin	mg/kg	N.D.	0.5	12
Soluble Zinc(Zn)	mg/kg	N.D.	0.08	46000

Organic tin test

Test Item(s)	Unit	Result	MDL	Limit
Methyltin	mg/kg	N.D.	0.5	
Butyltin	mg/kg	N.D.	0.5	
Tributyltin	mg/kg	N.D.	0.5	
MonoDecyltin	mg/kg	N.D.	0.5	
DiDecyltin	mg/kg	N.D.	0.5	12
Dibutyltin	mg/kg	N.D.	0.5	12
Dipropyltin	mg/kg	N.D.	0.5	
Tetrabutyltin	mg/kg	N.D.	0.5	
Diphenyltin	mg/kg	N.D.	0.5	
Triphenyltin	mg/kg	N.D.	0.5	

This report shall not be altered, increased or deleted. The results shown in this test report refer only to the sample(s) tested. Without written approval of BST, this test report shall not be copied except in full and published as advertisement. BST Chemical Lab.

Dongguan BST Testing Co., Ltd.



Report No: BSTDGN16235334060944CR

Date:Sep.27, 2023

Page 12 of 15

The Result (No.9):

Migration test

Test Item(s)	Unit	Result	MDL	Limit
Soluble Aluminium (Al)	mg/kg	N.D.	50	70000
Soluble Antimony(Sb)	mg/kg	N.D.	1.0	560
Soluble Arsenic(As)	mg/kg	N.D.	0.5	47
Soluble Barium(Ba)	mg/kg	N.D.	50	18750
Soluble Boron(B)	mg/kg	N.D.	50	15000
Soluble Cadmium(Cd)	mg/kg	N.D.	0.3	17
Soluble Chromium(III)(Cr III)	mg/kg	N.D.	5	460
Soluble Chromium(VI) (Cr VI)	mg/kg	N.D.	0.005	0.2
Soluble Cobalt(Co)	mg/kg	N.D.	0.5	130
Soluble Copper(Cu)	mg/kg	N.D.	50	7700
Soluble Lead(Pb)	mg/kg	N.D.	0.5	23
Soluble Manganese(Mn)	mg/kg	N.D.	50	15000
Soluble Mercury(Hg)	mg/kg	N.D.	0.5	94
Soluble Nickel(Ni)	mg/kg	N.D.	10	930
Soluble Selenium(Se)	mg/kg	N.D.	0.08	460
Soluble Strontium(Sr)	mg/kg	N.D.	5.0	56000
Soluble Tin(Sn)	mg/kg	N.D.	50	180000
Organic tin	mg/kg	N.D.	0.5	12
Soluble Zinc(Zn)	mg/kg	N.D.	0.08	46000

Organic tin test

Test Item(s)	Unit	Result	MDL	Limit
Methyltin	mg/kg	N.D.	0.5	
Butyltin	mg/kg	N.D.	0.5	
Tributyltin	mg/kg	N.D.	0.5	
MonoDecyltin	mg/kg	N.D.	0.5	
DiDecyltin	mg/kg	N.D.	0.5	12
Dibutyltin	mg/kg	N.D.	0.5	12
Dipropyltin	mg/kg	N.D.	0.5	
Tetrabutyltin	mg/kg	N.D.	0.5	
Diphenyltin	mg/kg	N.D.	0.5	
Triphenyltin	mg/kg	N.D.	0.5	

This report shall not be altered, increased or deleted. The results shown in this test report refer only to the sample(s) tested. Without written approval of BST, this test report shall not be copied except in full and published as advertisement. BST Chemical Lab.

Dongguan BST Testing Co., Ltd.



Report No: BSTDGN16235334060944CR

Date:Sep.27, 2023

Page 13 of 15

The Result (No.10):

Migration test

Test Item(s)	Unit	Result	MDL	Limit
Soluble Aluminium (Al)	mg/kg	N.D.	50	70000
Soluble Antimony(Sb)	mg/kg	N.D.	1.0	560
Soluble Arsenic(As)	mg/kg	N.D.	0.5	47
Soluble Barium(Ba)	mg/kg	N.D.	50	18750
Soluble Boron(B)	mg/kg	N.D.	50	15000
Soluble Cadmium(Cd)	mg/kg	N.D.	0.3	17
Soluble Chromium(III)(Cr III)	mg/kg	N.D.	5	460
Soluble Chromium(VI) (Cr VI)	mg/kg	N.D.	0.005	0.2
Soluble Cobalt(Co)	mg/kg	N.D.	0.5	130
Soluble Copper(Cu)	mg/kg	N.D.	50	7700
Soluble Lead(Pb)	mg/kg	N.D.	0.5	23
Soluble Manganese(Mn)	mg/kg	N.D.	50	15000
Soluble Mercury(Hg)	mg/kg	N.D.	0.5	94
Soluble Nickel(Ni)	mg/kg	N.D.	10	930
Soluble Selenium(Se)	mg/kg	N.D.	0.08	460
Soluble Strontium(Sr)	mg/kg	N.D.	5.0	56000
Soluble Tin(Sn)	mg/kg	N.D.	50	180000
Organic tin	mg/kg	N.D.	0.5	12
Soluble Zinc(Zn)	mg/kg	N.D.	0.08	46000

Organic tin test

Test Item(s)	Unit	Result	MDL	Limit
Methyltin	mg/kg	N.D.	0.5	
Butyltin	mg/kg	N.D.	0.5	
Tributyltin	mg/kg	N.D.	0.5	
MonoDecyltin	mg/kg	N.D.	0.5	
DiDecyltin	mg/kg	N.D.	0.5	10
Dibutyltin	mg/kg	N.D.	0.5	12
Dipropyltin	mg/kg	N.D.	0.5	
Tetrabutyltin	mg/kg	N.D.	0.5	
Diphenyltin	mg/kg	N.D.	0.5	
Triphenyltin	mg/kg	N.D.	0.5	

Note: 1. mg/kg= ppm;

2. N.D. =Not Detected (<MDL);

3. MDL =Method Detection Limit.

This report shall not be altered, increased or deleted. The results shown in this test report refer only to the sample(s) tested. Without written approval of BST, this test report shall not be copied except in full and published as advertisement. BST Chemical Lab.

Dongguan BST Testing Co., Ltd.



Report No: BSTDGN16235334060944CR

Date:Sep.27, 2023

Page 14 of 15

Sample Photo



This report shall not be altered, increased or deleted. The results shown in this test report refer only to the sample(s) tested. Without written approval of BST, this test report shall not be copied except in full and published as advertisement. BST Chemical Lab.

Dongguan BST Testing Co., Ltd.

No.1, Chaomei Industrial Park, No.445, Donghai Road, Yongan Community, Yantian Street, Y antian District, Shenzhen City, Guangdong Province Tel: 400-962-6168 http://www.bst-lab.com E-mail: christina@bst-lab.com

46 47 48 49 - 51 52 53 54 - 56 57 58 59 -



Report No: BSTDGN16235334060944CR

Date:Sep.27, 2023

Page 15 of 15

**** End of Report ****

This report shall not be altered, increased or deleted. The results shown in this test report refer only to the sample(s) tested. Without written approval of BST, this test report shall not be copied except in full and published as advertisement. BST Chemical Lab.

Dongguan BST Testing Co., Ltd.