

# Test Report

Report No.: TLSZD00023342

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**Applicant :** CSP INC  
**Address :** 8248 W. ORANGE DR GLENDALE, AZ 85303 USA

**Report on the submitted sample said to be:**

Sample Name : YO-YO  
Item/Lot No. : K05-114  
Buyer : Kids' Korner  
Country of Origin : CHINA  
Exported to : U.S.A  
Client Specified Age Grading : 3+  
Labelled Age Grading : Not stated  
Age Group Applied in Testing : Over 3 years  
Sample Received Date : May.18,2011  
Sample Resubmission Date : May.24,2011/ May.26,2011  
Sample Tested Date : May.18,2011 to Jun.02,2011

**TEST REQUEST**

- 1)ASTM F963-08 Standard Consumer Safety Specification for Toy Safety
- 2)European Regulation(EC) No. 1907/2006, REACH & amendment No.552/2009 Annex XVII
  - (Item 23)Cadmium and its compounds(Formerly Known as 91/338/EEC)
- 3)US Consumer Product Safety Improvement Act 2008 (CPSIA)
  - Lead in surface-coatings and similar materials of children's product
  - Lead in substrate materials of children's product

**CONCLUSION**

**PASS**  
**PASS<sup>#01</sup>**  
**PASS**  
**PASS<sup>#02</sup>**

**Test Results:** Please refer to next page(s)

Inspected by: \_\_\_\_\_ , Approved by: \_\_\_\_\_ , Approved date: 2011-06-02  
Engineer Victor wang No. 27488966  
Lab Manager

4F, Building F, Hongwei Industrial Zone, Baoan 70 District, Shenzhen, China

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## 1) ASTM F963 –08

As Specified in ASTM F963-08 Standard Consumer Safety Specification for Toy Safety.

<u>Clause</u>	<u>Description</u>	<u>Assessment</u>
4.	Safety Requirements	
4.1	Material Quality (Visual Examination).....	Pass
4.2	Flammability Test.....	Pass
		(See Note 1)
4.3	Toxicology	
4.3.5	Paint & Similar Surface-coating Material.....	Pass
		(See Note 2)
4.6	Small Objects.....	N/A
4.7	Accessible Edges.....	Pass
4.9	Accessible Points.....	Pass
5.	Safety Labeling Requirements	
5.16	Promotional Materials.....	Pass
6.	Instructional Literature	
6.1	Definition and description .....	Pass
7.	Producers Markings	
7.1	Producers Markings.....	Pass
8.	Test Method	
8.5	Normal Use Testing.....	Pass
8.7	Impact Test .....	Pass
8.8	Torque Test.....	Pass
8.9	Tension Test.....	Pass

N/A = Not Applicable

### Note 1:

Flammability Test (Clause 4.2)

Flammability Test on Solid

<u>Sample</u>	<u>Burning Rate (inch/sec)</u>	<u>Limit (inch/sec)</u>
YO-YO	DNI	0.1

DNI = Did Not Ignite

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Note 2 :

## **TOXIC ELEMENTS CONTENT**

**Heavy Metals Analysis : Total Lead (Clause 4.3.5.1)**

Acid Digestion Method was Used and Total Lead Content was Determined by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES).

<u>Element</u>	<u>Result(mg/kg)</u>		<u>Limit</u> (mg/kg)
	(1)	(2)	
Total Lead	< 5	< 5	90

Tested Components:

- (1) Silver paint(yoyo)
- (2) Black paint (yoyo)

**Heavy Metals Analysis : Soluble Heavy Metal (Clause 4.3.5.2)**

Acid Extraction Method was Used in accord with ASTM F963-08 (Clause 8.3) and Toxic Elements Content were Determined by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES).

Remark:

- < = Less than
- mg/kg = Milligram per kilogram based on dry weight of sample
- As received, the test portion of silver coating(yoyo) and black coating(yoyo) are less than 10mg, therefore such components were not tested for soluble elements, as specified in ASTM F963-08 Clause 8.3.3.1 (2)

Note:

- Only applicable clauses were shown.

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## **2)EUROPEAN REGULATION(EC) NO. 1907/2006, REACH & AMENDMENT NO.552/2009 ANNEX XVII**

### **▼ CADMIUM AND ITS COMPOUNDS**

As Specified in European Regulation(EC) No. 1907/2006, REACH & amendment No.552/2009 Annex XVII, with Reference to EN1122:2001 Method B or other Appropriate Methods, and Total Cadmium Content was Performed by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES).

<u>Element</u>	<u>Result (%)</u>			<u>Limit (%)</u>
	(1)	(2)	(3)	
Cadmium (Cd)	<0.0005	<0.0005	<0.0005	0.01

Tested Components:

- (1) Transparent dk. blue plastic(blue yoyo)
- (2) Transparent dk. red plastic(red yoyo)
- (3) Transparent kelly plastic(kelly yoyo)

Remark:

- < = Less than
- % = Percentage based on dry weight of testing sample
- #01 : CTI conducted cadmium on the components which were identified by the client, and the testing results can meet European Regulation(EC) No. 1907/2006, REACH & amendment No.552/2009 Annex XVII requirement.

## **3)US CONSUMER PRODUCT SAFETY IMPROVEMENT ACT 2008 (CPSIA)**

### **▼ LEAD IN SURFACE-COATING AND SIMILAR MATERIALS OF CHILDREN'S PRODUCT**

As Specified in Consumer Product Safety Improvement Act 2008 (CPSIA) and Title 16 Part 1303 Code of Federal Regulations, Chapter II – Consumer Product Safety Commission of U.S.A, Method CPSC-CH-E1003-09 was Used and Total Lead Content was Determined by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES).

<u>Element</u>	<u>Result (ppm)</u>		<u>Limit (ppm)</u>
	(1)	(2)	
Total Lead (Pb)	<5	<5	90

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**Tested Components:**

- (1) Silver paint(yoyo)
- (2) Black paint (yoyo)

**Remark:**

- < = Less than
- ppm= parts per million based on dry weight of sample

**▼ LEAD IN SUBSTRATE MATERIALS OF CHILDREN’S PRODUCT**

As Specified in Consumer Product Safety Improvement Act 2008 (CPSIA), Methods CPSC-CH-E1001-08.1 and CPSC-CH-E1002-08.1 were Used and Total Lead Content was Determined by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES).

<u>Element</u>	<u>Result (ppm)</u>				<u>Limit (ppm)</u>
	(1)	(2)	(3)	(4)	
Total Lead (Pb)	<5	<5	<5	<5	300

<u>Element</u>	<u>Result (ppm)</u>			<u>Limit (ppm)</u>
	(5)	(6)	(7)	
Total Lead (Pb)	<5	<5	<5	300

**Tested Components:**

- (1) Transparent dk.blue plastic(blue yoyo)
- (2) Transparent lt.blue plastic(upper of blue yoyo)
- (3) Transparent dk.red plastic(red yoyo)
- (4) Transparent lt.red plastic(rupper of ed yoyo)
- (5) Transparent kelly plastic(kelly yoyo)
- (6) Transparent lt.kelly plastic(upper of kelly yoyo)
- (7) White cord

**Remark:**

- < = Less than
- ppm= parts per million based on dry weight of sample
- #02 : CTI conducted total lead on the components which were identified by the client, and the testing results can meet CPSIA requirement.

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## Photo of the sample



\*\*\* End of report \*\*\*

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