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**Report No.:** TY09-09540

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**Applicant :** CHRISTIAN MEDIA  
488-30 AMSA-DONG KANGDONG-GU SEOUL KOREA

**Date of Issue:** SEP. 08, 2009  
**Date of Test:** SEP. 08, 2009  
**Date of Receipt:** SEP. 01, 2009

OVERALL RATING

**PASS**

**Sample Information:**

<b>Sample Description:</b>	TABERNACLE KITS		
<b>Style No./ Item No.:</b>	/	<b>SKU No.:</b>	/
<b>P.O. No:</b>	/	<b>Country of Origin:</b>	KOREA
<b>Color:</b>	/	<b>Country of Destination:</b>	USA
<b>Re-Test (Yes/No):</b>	NO	<b>Previous Report No.:</b>	/

**Age Grading:**

<b>Labeled Age grading:</b>	Not for children under 3 yrs.
<b>Tested Age grading:</b>	For over 3 years

**Sample Type:**

<input checked="" type="checkbox"/>	<b>Production Sample</b>	<input type="checkbox"/>	<b>Pre-Production Sample</b>	<input type="checkbox"/>	<b>Partial Test Sample</b>
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**Tests Requested:**

ASTM F963-08 (Standard Consumer Safety Specification of Toy Safety)  
CPSIA (H.R.4040) – See the test summary in page 2

**Conclusion:**

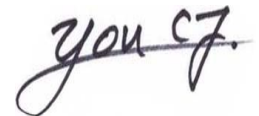
The submitted sample meets the requirements for the requested tests

Tested by Seung Don Kim  
Name



Technical Sub  
Manager Name

Chan Joo Rhu



The above test certificate is the accredited test results by Korea Laboratory Accreditation Scheme, which signed the ILAC-MRA.

**Korea Environment & Merchandise Testing Institute**  
**President Chang Ro Kim**



**Test Summary:**

<u>TEST PROPERTY</u>	<u>RESULT</u>	<u>COMMENT</u>
ASTM F963-08 – Standard Consumer Safety Specification of Toy Safety		
- LABELING	PASS	
- MECHANICAL AND PHYSICAL TEST	PASS	
- PERFORMANCE TEST	PASS	
- FLAMMABILITY TEST	PASS	
- TOXIC ELEMENTS ANALYSIS TEST	PASS	
CPSIA (H.R.4040)		
- 16 CFR 1303 (CPSIA section.101) – Lead in Paint	PASS	
- 16 CFR 1500.44 – Flammability of Solids	PASS	
- 16 CFR 1610 – Flammability of Clothing Textiles	PASS	
- 16 CFR 1500.48 and 1500.49 – Sharp Points/Edges	PASS	
- 16 CFR 1501 – Small Parts	NA	For over 3 years
- Lead in Substrates (CPSIA section.101)	PASS	
- Phthalates Content (CPSIA section.108)		
DEHP, DBP and BBP	PASS	
DINP, DIDP and DnOP	PASS	

# TEST RESULTS

## ASTM F963-08 – Standard Consumer Safety Specification of Toy Safety

The stuffed toys are considered to be for all ages, so the tests were applied to the category of all age group and subjected to the most stringent applicable requirements within A F963-08

\* Result comments: NA = Not Applicable, NR = Not Requested

### 1. LABELING

Section	Property	Requirement	Result	Rating
5 & 6	Labeling & Instructions	Shall provide the warning	Conformed	Pass
7	Producer's Markings	Shall mark name and address	Marked	Pass

### 2. MECHANICAL AND PHYSICAL TEST

Section	Property	Requirement	Result	Rating
4.1	Material Quality	Constructed of new or reprocessed materials	New	Pass
4.3.7	Stuffing Materials	No containing metal chips/free of objectionable matter (by visual examination)	Conformed	Pass
4.5	Sound Producing Toys	The toy produced continuous sound : Shall not exceed 85 dB of "A" W't (Except close to the ear toys) If rattle less than 115 dB of "C" W't	NA	-
4.6	Small Objects	No small objects (16 C.F.R Part 1501)	NA(For over 3 years)	-
4.7	Accessible Edges	No sharp edges (16 C.F.R Part 1500.49)	No sharp edges	Pass
4.9	Accessible Points	No sharp points (16 C.F.R Part 1500.48)	No sharp points	Pass
4.10	Wire or Rods	No fracture	No breakage	Pass
4.12	Packaging Film	Over 0.03810 mm	0.040 mm	Pass
4.14	Cords, Straps, and Elastics in Toys	Shall be less than 300 mm long and the loop shall not permit the passage of the head probe (Section 4.14.1)	NA(For over 3 years)	-
		Shall not retract more than 6mm when a weight of 0.9kg (Section 4.14.2)	NA	-
4.22	Teethers and teething Toys	Shall conform to the safety requirements (16 C.F.R Part 1501)	NA	-
4.23	Rattles	Shall conform to the safety requirements (16 C.F.R Part 1510)	NA	-
4.24	Squeeze toys	Shall conform to the safety requirements (16 C.F.R Part 1510)	NA	-
4.27	Stuffed & Beanbag -Type Toys	The seams(inner or outer) shall be withstood at 66.8 N	NA	-
4.36	Pompoms	No detachable pompoms	NA	-
4.38	Magnet	No hazardous magnet or magnetic components after being abuse test	NA	-

### 3. PERFORMANCE TEST

Section	Property	Requirement	Result	Rating
8.5	Normal Use Testing	No safety hazards	No safety hazards	Pass
	Washable Toys	No safety hazards	NA	-
8.7	Impact/ Drop Test	No damage (10 drops, height:137cm)	No damage	Pass
8.8	Torque Test for removal of Components	Not detached (0.45 Nm of torque strength, 10 seconds)	No hazardous Sharp points & edges	Pass
8.9	Tension Test for removal of Components	Not detached (66.8 N of tensile strength, 10 seconds)	No hazardous Sharp points & edges	Pass
	Tension Test for seams	No seams opened	NA	-
8.10	Compression Test	No breakage (135.7N, 10 seconds)	No breakage	Pass
8.12	Flexure Test	No breakage (Total angle: 120°, 30 cycles)	No breakage	Pass

#### 4. FLAMMABILITY TEST

Section	Property	Requirement	Result	Rating
4.2	Flammability - Textile fabrics	Spread (Pile: > 7sec. / Textile: > 4sec.) (16 C.F.R. Part 1610)	Textile: D.N.I.	Pass
	- Solid materials	Burn Rate: < 2.54 mm/sec. (16 C.F.R. Part 1500.44)	D.N.I.	Pass
	- Soft & Solid toys	Burn Rate: < 2.54 mm/sec. (16 C.F.R. Part 1500.44)	NA	-

\* D.N.I. : Did not Ignite

#### 5. TOXIC ELEMENTS ANALYSIS TEST

##### Section 4.3.5 Paint & Similar Surface-Coating Materials

**Tested Component :** No coating materials used.

##### Section 4.3.5.1 Total Lead (Pb) Content (For compliance of 16 C.F.R. Part 1303)

(Test Method : AOAC 974.02 or ASTM E 1645 and analysis by ICP-OES (ASTM E 1613))

Element	Requirement	Test Item	Results (mg/kg)	Rating
Total Lead (Pb)	Not exceed 600 mg/kg (0.06 wt%)	NA	-	-

Note:

< = Less than., mg/kg (milligram per kilogram) = ppm (parts per million)

##### Section 4.3.5.2 Soluble Heavy Metals

(Test Method : Analysis was determined ICP-OES in accordance with the test method in section 8.3.4)

Elements	Antimony (Sb)	Arsenic (As)	Barium (Ba)	Cadmium (Cd)	Chromium (Cr)	Lead (Pb)	Mercury (Hg)	Selenium (Se)	Rating
Requirement (mg/kg)	<60	<25	<1000	<75	<60	<90	<60	<500	
<b>Test Item</b>	<b>Results (mg/kg)</b>								
NA	-	-	-	-	-	-	-	-	-

Note:

- < = Less than., mg/kg (milligram per kilogram) = ppm (parts per million).
- Results shown are adjusted analytical value.
- Test material less than 10 mg are not required to the Soluble Heavy metal test

##### Section 4.3.8 DEHP (DOP) – Pacifiers, rattles, and teethers

(Test Method : ASTM D3421:1975 (mod.) and analysis was conducted by Gas Chromatography-Mass spectrometry)

Tested Component: NA

Element	Requirement	Result	Rating
DEHP (DOP)	< 3%	NA	-

**CPSIA (H.R.4040)**

Property	Regulation	Requirement	Result	Rating
Lead in Paint	16 C.F.R. Part 1303 (CPSIA sec.101)	Not exceed 600 ppm (0.06 wt%) of total lead (Pb) content * 90 mg/kg (0.009 wt%): Effective Aug.14, 2009	See the section 4.3.5.1 in page 4	-
Flammability of Solids	16 C.F.R. Part 1500.44	Burn Rate: < 2.54 mm/sec.	See the section 4.2 in page 4	Pass
Flammability of Clothing Textiles	16 C.F.R. Part 1610	Spread (Pile: > 7sec. / Textile: > 4sec.)	See the section 4.2 in page 4	Pass
Sharp Points/ Edges	16 C.F.R. 1500.48 and 1500.49	No sharp edges/points	See the section 4.7 and 4.9 in page 3	Pass
Small Parts	16 C.F.R. Part 1501	No small objects	See the section 4.6 in page 3	-

**Lead in Substrates (CPSIA sec.101)**

(Test Method : US EPA 3050B, US EPA 3052 & In-House Method and analysis by ICP-OES (ASTM E 1613))

**Tested Component :**

- |                              |                        |
|------------------------------|------------------------|
| 1) Plastic (Gold)            | 8) Fabric (Red)        |
| 2) Plastic (D. Brown)        | 9) Fabric Tape (White) |
| 3) Plastic (Grayish Brown)   | 10) Thread (Brown)     |
| 4) P.V.C. (White)            | 11) Elastic (White)    |
| 5) Fabric (D. Brown w/Beige) | 12) Metal Screw        |
| 6) Fabric (Multi color)      | 13) Metal Wire         |
| 7) Fabric (White)            | 14) Color Paper        |

Element	Requirement	Test Items	Result(mg/kg)	Rating
Total Lead (Pb)	Not exceed 100 mg/kg (0.01 wt%)	1)	<10	Pass
		2)	<10	Pass
		3)	<10	Pass
		4)	<10	Pass
		5)	<10	Pass
		6)	<10	Pass
		7)	<10	Pass
		8)	<10	Pass
		9)	<10	Pass
		10)	<10	Pass
		11)	<10	Pass
		12)	<10	Pass
		13)	<10	Pass
		14)	<10	Pass

Note:

- < = Less than., mg/kg = milligram per kilogram (ppm=parts per million).
- The limit of total lead content in substrates applies Manhattan's requirement.

**Phthalates Content (CPSIA sec.108)**

(Test Method : ASTM D 3421:1975 (mod.) & In-House Method and analysis was conducted by Gas Chromatography-Mass spectrometry)

Tested Component : 1) P.V.C. (White)

Elements	DEHP	DBP	BBP	DINP	DIDP	DnOP	Rating
Requirement (%)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
<b>Test Item</b>	<b>Results (%)</b>						Pass
1)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	

Note:

- < = Less than
- Full name of the restricted phthalates  
- DEHP: di-(2-ethylhexyl) phthalate / DBP: dibutyl phthalate / BBP: benzyl butyl phthalate  
- DINP: diisononyl phthalate / DIDP: diisodecyl phthalate / DnOP: di-n-octyl phthalate
- Application of requirements  
- Children's toys and childcare articles shall not contain concentrations of more than 0.1% DEHP, DBP or BBP.  
- Children's toys that can be placed in the mouth or childcare articles shall not contain concentrations of more than 0.1% DINP, DIDP or DnOP

### Unit Conversion

Testing Parameter	Conversion
Flammability Test	2.54 mm = 0.1 in.
Packaging Film Test	0.03810 mm = 0.00150 in.
Cords, Straps, and Elastics in Toys Test	300 mm = 12 in.
Drop Test	1.37 m = 4.5 ft.
Torque Test	0.45 N-m = 4 in.-lbf
Tension Test	66.8 N = 15 lbf
Compression Test	133.5 N = 30 lbf

### APPENDIX

#### (Original Sample)



- End of Report -