



# CERTIFICATE OF ACCREDITATION

**ANSI-ASQ National Accreditation Board**

500 Montgomery Street, Suite 625, Alexandria, VA 22314, 877-344-3044

This is to certify that

**DPI Laboratory (Dongguan) Limited**  
**DPI Testing Centre, Dongshen Industrial District**  
**Aubuiwei, Zhangmutou, Dongguan**  
**Guangdong, China 523619**

has been assessed by ANAB  
and meets the requirements of international standard

**ISO/IEC 17025:2005**

while demonstrating technical competence in the field(s) of

**CALIBRATION & TESTING**

Refer to the accompanying Scope(s) of Accreditation for information regarding the types of calibrations and/or tests to which this accreditation applies.

ACT-1399

Certificate Number

  
ANAB Approval

Certificate Valid: 05/11/2016-06/12/2017  
Version No. 002 Issued: 05/11/2016



This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated January 2009).



# ANSI-ASQ National Accreditation Board

## SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

### DPI Laboratory (Dongguan) Limited

Unit F 3/F Dongshen Industrial District, Aubuiwei, Zhangmutou, Dongguan, China, Postcode: 523619  
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### TESTING and CALIBRATION

Valid to: June 12, 2017

Certificate Number: ACT-1399

#### I. Chemical

Items, Materials or Products Tested	Specific Tests or Properties Measured	Specification, Standard Method, or Technique Used	Key Equipment or Technology*
Toys / Stationery	Heavy Metals Pb, Cd, Hg, Cr, As, Se, Sb, Ba	ASTM F963-11 4.3.5.8.3	Varian ICP-OES 720-ES/ Agilent 720-ICP-OES/ Varian AAS 240
Toys / Stationery	Heavy Metals Pb, Cd, Hg, Cr, As, Se, Sb, Ba	Safety of toys --Part 3 Migration of certain elements ISO 8124-3:2010 Safety of toys - Part 5: Determination of total concentration of certain elements in toys ISO 8124-5:2015 AS/NZS ISO 8124.3-2012 US EPA 3050B: 1996 US EPA 6010C: 2007 GB6675.1-2014 GB6675.4-2014 Safety of toys – Migration of certain elements GB 24613-2009, Limits of harmful substances of coatings for toys GB/T22753-2008, Technical requirement of surface coatings on toys GB21027-2007, Request in common use of security for student's articles	Varian ICP-OES 720-ES/ Agilent 720-ICP-OES/ Varian AAS 240/ Perkin Elmer ICP-MS ELAN 9000
Toys	Heavy Metals Pb, Cd, Hg, As, Ba, Cr, Sb, Se	Canadian Hazardous Products Act, R.S.C.H-3 Schedule I / Part I, Item 9:2011 and Canada Gazette Part II, May 4, 2005; Vol. 139, No. 9 (Hazardous Products Act – Surface Coating Materials) SOR2011-17	Varian ICP-OES 720-ES/ Agilent 720-ICP-OES
Toys & children products	Total Pb & Hg Soluble Ba, As, Sb, Se and Cd	Canadian Product Safety Reference Manual Book 5 — Laboratory Policies and Procedures, part B: Test methods section – Method C02: 94 / C02.2: 2013 / C03: 2014 / C02.4: 2013 / C08: 2014	Varian ICP-OES 720-ES/ Agilent 720-ICP-OES/ Varian AAS 240/ Perkin Elmer ICP-MS ELAN 9000
Consumables / Toys	Lead (Pb)	16 CFR1303 ASTM E1645-2016 / ASTM E1613-2012 / GB/T22788-2008	Varian AAS 240 / Varian ICP-OES 720-ES/ Agilent 720-ICP-OES



Items, Materials or Products Tested	Specific Tests or Properties Measured	Specification, Standard Method, or Technique Used	Key Equipment or Technology*
Toys / Children products	Lead (Pb)	CPSC-CH-E1003-09.1:2011 CPSC-CH-E1002-08.3:2012 CPSC-CH-E1001-08.3:2012	Varian AAS 240 / Varian ICP-OES 720-ES/ Agilent 720-ICP-OES
Leather	Hexavalent Chromium ( Cr6+ )	ISO 17075:2007 EN ISO 17075:2007 BS EN ISO 17075:2007 DIN EN ISO 17075:2008	Shimadzu UV-VIS 2450
Hazardous substances in polymeric materials & inorganic nonmetallic materials	Cd, Hg, Pb	US EPA 6010C: 2007 ICP-AES	Varian AAS 240/ Varian ICP-OES 720-ES/ Agilent 720-ICP-OES
Hazardous substances in polymeric materials & inorganic nonmetallic materials	Hexavalent Chromium ( Cr6+ )	ISO 3613: 2010 Clause 5.6 EN ISO 3613:2010	Shimadzu UV-VIS 2450
Environmental hazardous substances in electronic and electrical products	Pb., Cd, Hg, Cr & Br for non-metal material Pb and Cd for metal material(X-ray fluorescence spectrometry )	Testing methods for hazardous substances in electronic information products, Clause 5 SJ/T 11365 : 2006/ IEC 62321:2008 IEC 62321-1-2013 IEC 62321-2-2013 IEC 62321-3-1-2013 GB/T 26125-2011	Thermo NITON XL 3T700
Electrotechnical products	Pb, Hg, Cd, Cr6+	IEC 62321:2008 IEC 62321-1-2013 IEC 62321-2-2013 IEC 62321-4-2013 IEC 62321-5-2013 GB/T 26125-2011	Varian AAS 240/ Varian ICP-OES 720-ES/ Agilent 720-ICP-OES/ Shimadzu UV-VIS 2450
Package / Package material	Heavy Metals Pb, Cd, Hg, Cr6+	Hasbro Global Quality Assurances— SRS-082, Heavy metals requirements for packaging Mattel Quality and Safety Operation Procedure— QSOP 0006- 5000, Environmental- Packaging Heavy Elements US Model Toxics in Packaging Legislation (TPCH: Toxics in Packaging Clearing House) / European Council Directive 2005/20/EC US EPA 3060A:1996 US EPA 7196A:1992	Varian ICP-OES 720-ES /Agilent 720-ICP-OES/ Shimadzu UV-VIS 2450
Consumables	Cadmium (Cd)	Europe Annex XVII Items 23 of REACH Regulation (EC) no. 1907/2006 & amendment no. 552/2009, Directive 91/338/EEC of the European parliament and of the council on cadmium, Determination of cadmium in plastics – wet decomposition method, EN 1122: 2001, method B, BS EN 1122: 2001, method B, CPSC-CH-E1004-11:2011	Varian ICP-OES 720-ES /Agilent 720-ICP-OES Varian AAS 240
Paper & Board / Wood / Wooden product / Textile / Fabric	Formaldehyde	BS EN 645:1994(R2004), BS EN 647:1994(R2004) BS EN 1541:2001(R2006), ISO 14184-1:2011 EN 120:1992, EN 717-3:1996 Mattel Quality and Safety Operation Procedure — QSOP 0006-3618	Shimadzu UV-VIS 2450

Items, Materials or Products Tested	Specific Tests or Properties Measured	Specification, Standard Method, or Technique Used	Key Equipment or Technology*
Textile / Fabric	Formaldehyde	AATCC Test Method 112-2014	Shimadzu UV-VIS 2450
Wood / wooden product	Formaldehyde	ASTM D 5582-2014 ASTM D 6007-2014 GB/T 17657-2013 Clause 4.58,4.59(Perforator method, Desiccator method ) GB18580-2001 Clause 6.1(The perforator method)	Shimadzu UV-VIS 2450 Simplewell 1 M <sup>3</sup> Chamber
Textile / Fabric / Leather	Azo dye	EN 14362-1:2012 ASU nach §64 BVL B 82.02-2 2013 (Accredited only for GCMS method) GB/T 17592-2011 ISO 17234-1:2015 ISO 17234-2:2011	Agilent GC-MS 7890A / 5975C
Toys	Phthalates (DBP, BBP, DEHP, DNOP, DIDP, DINP, DNHP, DIBP)	ASTM F963-11 4.3.8 CPSC-CH-C1001-09.3 ASTM D7083-04 (2010)E1, EN 14372: 2004 Clause 6.3.2 ISO 8124-6-2014 GB/T 22048-2015 GB6675.1-2014 Clause5.3.7 Hasbro Global Quality Assurances SRS-046, Plasticizers specification Mattel Quality and Safety Operation Procedure — QSOP 0006-3610, Plasticizers	Agilent GC-MS 7890A / 5975C / Perkin Elmer GCMS Clarus 680/600T
Toys / Consumer Product	Organic tin (MBT/DBT/TBT/TTBT/TPT/MOT/ DOT/TcyT)	GB/T 20385-2006 DIN EN ISO17353:2005 / BS EN ISO 17353:2005(R2008) / ISO 17353:2004 / HJ 566-2010	Agilent GCMS 7890A/5975C
Leather / Textile	Chlorinated phenols	LFGB §64 BVL B 82.02.8 2003 GB/T 18414.1-2006 ISO 17070:2015 DIN EN ISO 17070:2015 91/173/EEC	Agilent GCMS 7890A/5975C/Agilent GCMSMS 7890A/7000B
Indoor decorating and refurbishing materials	Benzene, Toluene, Xylene, Methanol, Ethyl benzene	GB18581:2009 Indoor decorating and refurbishing materials--Limit of harmful substances of solvent coatings for woodenware GB 18583-2008 Indoor decorating and refurbishing materials--Limit of harmful substances of adhesives 82/806/EEC	Agilent GC-FID 7890A/FID
Toys	Heavy Metals Pb, Cd, Hg, Cr, As, Se, Sb, Ba	Hasbro Global Quality Assurances - SRS-018	Varian ICP-OES 720-ES / Varian AAS 240 Agilent 720-ICP-OES
Toys	Heavy Metals Pb, Cd, Hg, Cr, As, Se, Sb, Ba	Mattel Quality and Safety Operation Procedure QSOP 0006-3600 Heavy metals	Varian ICP-OES 720-ES /Agilent 720-ICP-OES/ Varian AAS 240
Toys / Consumer product	Nickel release	BS EN 12472:2005+A1:2009 EN 12472:2005 DIN EN 12472:2009 BS EN 1811: 2011+A1:2015 EN 1811:2011+A1:2015 BS EN 16128:2011	Varian ICP-OES 720-ES / Agilent 720-ICP-OES/ Varian AAS 240

Items, Materials or Products Tested	Specific Tests or Properties Measured	Specification, Standard Method, or Technique Used	Key Equipment or Technology*
Toys / Consumer product	Polynuclear Aromatic Hydrocarbons (PAHs)	AfPS GS 2014:01 PAK	Agilent GCMS 7890A/5975C/Agilent GCMSMS 7890A/7000B
Toys	Heavy element Migration content: Pb / Cd / Cr / Hg / Ba / As / Sb / Se / Al / B / Co / Mn / Ni / Sr / Sn / Zn / Cr3+ / Cr6+ / Organotin	2009/48/EC EN71-3:2013 EN71-3:2013+A1:2014	Varian ICP-OES 720-ES/ Agilent 720-ICP-OES /Varian AAS 240/ Perkin Elmer ICPMS ELAN9000/ Agilent GCMS 7890A/5975C LC-IC Waters e2695-TCM-2998
Consumer Products / Toys	Phthalates: DINP / DEHP / DBP / DIDP / DIBP / BBP / DNOP / DIOP / DMP / DHP / DPP / DEP / DCHP / DPRP / DBZP/ DNP/DNHP	Denmark statutory order NO.151 of march15,1999 banning Phthalates in toys for children aged 0-3 and in certain childcare articles etc / EPA8061A:1996	Agilent GC-MS 7890A / 5975C
Textile	o-phenylphenol	GB/T 20386-2006	Agilent GC-MS 7890A / 5975C
Textile	4-aminoazobenzene	ASU nach § 64 BVL B 82.02.15 2013(Accredited only for GCMS method) / GB23344-2009 (Accredited only for GCMS method)/ EN14362-3:2012	Agilent GC-MS 7890A / 5975C
Consumer Product / Electric Product	PBBs / PBDEs	IEC 62321: 2008 IEC 62321-6: 2015 GB/T 26125-2011 EPA 3550C:2007 EPA 8270 D: 2007 GB/Z 21276:2007 2011/65/EU 2.0	Agilent GC-MS 7890A / 5975C
Toys	Stuffing Materials	ASTM F963-11 4.3.7 Stuffed Toy Regulations of Pennsylvania-PA Code, Title 34, Chapter 47, Section 47.311-47.322	Perkin Elmer ICP-MS ELAN 9000/Varian AAS 240/Shimadzu UV-VIS 2450/Varian ICP-OES 720-ES/Agilent 720-ICP-OES /Microscope
Wood / wooden product	Chlorinated phenols	21 CFR FDA178.3800	Agilent GCMSMS 7890A/7000B

Items, Materials or Products Tested	Specific Tests or Properties Measured	Specification, Standard Method, or Technique Used	Key Equipment or Technology*
Food Contact Material	Soluble extractant	US FDA 21 CFR FDA 175.300 resinous and polymeric coatings / 176.170 Components of paper and paperboard in contact with aqueous and fatty foods / 177.1210 Closures with sealing gaskets for food containers / 177.1350 Ethylene-vinyl acetate copolymers (EVA) / 177.1460 Melamine-formaldehyde resins in molded articles / 177.1500 Nylon resins / 177.1520 Olefin polymers / 177.1580 Polycarbonate resins (PC) / 177.1595 Polyetherimide resin / 177.1630 Polyethylene phthalate polymers (PET) / 177.1810 Styrene block polymers / 177.1900 Urea-formaldehyde resins in molded articles / 177.2355 Mineral reinforced nylon resins / 177.2420 Polyester resins, cross-linked / 177.2450 Polyamide-imide resins / 177.2470 Polyoxymethylene copolymer / 177.2480 Polyoxymethylene homopolymer/ 177.2600 Rubber articles intended for repeated use	Preisa Electronic Balance XS 225A-SCS
Food Contact Material (Acrylonitrile copolymers and resins)	Acrylonitrile Monomer	21 CFR FDA 181.32 21 CFR FDA 180.22	Agilent HS-GCMS 7890A/5975C GC-MS/MS 7890A/7000B
Food Contact Material (polystyrene and rubber modified polystyrene)	Styrene monomer	FDA21 CFR177.1640	Agilent GCMS 7890A/5975C GC-MS/MS 7890A/7000B
Food Contact Material Silver-Plated Hollowware	Leachable Lead	CPG 7117.05 CPG Sec. 545.500 ASTM C738-94 (2011)	Varian AAS 240
Food Contact Material (Stainless Steel)	Chromium (Cr)	GRAS EPA Method 3050B (SW-846)	Varian ICP-OES 720-ES Agilent 720-ICP-OES
Food/ consumer products	Nitrosamine	ASTM F1313-90:2011 ASTM F963-11 Section 4.20.1 Canada C.R.C., c.930, Hazardous products (Pacifiers) Regulations	Agilent GC-MS/MS 7890A / 7000B
Consumer Product	Bisphenol-A (BPA)	EC/10/2011 Japan Food Sanitation Law	Waters UPLC-MS/MS LC(I-CLASS)- MSMS(Xevo TQ-S) Waters HPLC-FLD LC(e2695)-FLD(2475)
Plastic	Soluble Extractives / Sensory test	LFGB (LMBG) § 30, 31 1935/2004/EC 2007/19/EC EU No.10/2011 EN 1186-1, 3, 5, 7, 9, 14-2002 DIN 10955:2004-06	Preisa Electronic Balance XS 225A-SCS / Oven HT-205

Items, Materials or Products Tested	Specific Tests or Properties Measured	Specification, Standard Method, or Technique Used	Key Equipment or Technology*
Ceramicware/ Glassware	Leachable cadmium and lead	BS EN 1388 Part1:1996 (R2006) BS EN 1388 Part2:1996 (R2012) BS 6748:1986+A1:2011 (R2005) ISO6486-1-1999 ISO6486-2-1999 Test procedures for compliance testing of US FDA Compliance Policy Guides 7117.06&7117.07 AOAC 973.32(2005) AOAC 973.82(2005) ASTM C738-94 (2011) EU Council Directive 84/500/EEC EU Commission Directive 2005/31/EC Italy Decree of the Ministry of Health of 04-4-1995(GU No.120 ) Italy Official Gazette ( G.U. ) DMH 21 March 1973 NOISH 9100 California Proposition 65 Total Immersion modified ASTM C927-80 (2014)	Varian AAS 240
Glass tumblers	Leachable cadmium and lead	ASTM C927-80 (2014)	Varian AAS 240
Food Contact Material ( General Plastics)	Specific migration of Ba, Co, Cu, Fe, Li, Mn, Zn, Al, Ni	(EU) No10/2011 EN 13130-1:2004	Varian ICP-OES 720-ES Agilent 720-ICP-OES
Food Contact Material ( General Plastics)	Specific migration of Primary Aromatic Amines(PAA)	DIN 55610:1986 EN 13130-1:2004	Shimadzu UV-VIS 2450
Food Contact Material ( General Plastics)	Specific migration of Phthalate	(EU) No10/2011 EN 13130-1:2004	Waters UPLC-MS/MS LC(I-CLASS)- MSMS(Xevo TQ-S)

## II. Mechanical

Items, Materials or Products Tested	Specific Tests or Properties Measured	Specification, Standard Method, or Technique Used	Key Equipment or Technology*
Toys	Material Quality	ASTM F963-11 Section 4.1 EN 71-1:2014, Section 4.1 ISO 8124-1:2014 Section 4.3 AS/NZS ISO 8124.1:2013 Section 4.3 GB 6675.2-2014 Section 4.3 SOR/2011-17 Section 29	Visual
Toys	Small objects	ASTM F963-11 Section 4.6 EN 71-1:2014 Section 5.1 (except for Soak Wash) and 8.2 ISO 8124-1:2014 Section 4.4 and 5.2 AS/NZS ISO 8124.1:2013 Sect 4.4 and 5.2 GB 6675.2-2014 Section 4.4 and 5.2 SOR/2011-17 Sections 7 and 30 CPSC 16CFR 1501 SRS-001 (Q) QSOP 0006-3040 (S)	Small parts cylinder HASBRO small part cylinder, Rigid metal disc, Force gauge

Items, Materials or Products Tested	Specific Tests or Properties Measured	Specification, Standard Method, or Technique Used	Key Equipment or Technology*
Toys	Accessible edges	ASTM F963-11 Section 4.7 EN 71-1:2014 Section 4.7 and 8.10, 8.11 ISO 8124-1:2014 Section 4.6 and 5.7, 5.8 AS/NZS ISO 8124.1:2013 Section 4.6 and 5.7, 5.8 GB 6675.2-2014 Section 4.6 and 5.7, 5.8 SOR/2011-17 Section 8 and 10 CPSC 16CFR 1500.49 SRS-003 (F) QSOP 0006-3010 (F) QSOP 0006-3030 (F)	Accessibility probe Sharp edge tester
Toys	Projections	ASTM F963-11 Section 4.8 EN 71-1:2014 Section 4.9 ISO 8124-1:2014 Section 4.8 AS/NZS ISO 8124.1:2013 Section 4.8 GB 6675.2-2014 Section 4.8 QSOP 0006-3035 (D)	Visual
Toys	Accessible points	ASTM F963-11 Section 4.9 EN 71-1:2014 Section 4.8 and 8.10, 8.12 ISO 8124-1:2014 Section 4.7 and 5.7, 5.9 AS/NZS ISO 8124.1:2013 Section 4.7 and 5.7, 5.9 GB 6675.2-2014 Section 4.7 and 5.7, 5.9 SOR/2011-17 Section 9 CPSC 16CFR 1500.48 SRS-002 (H) QSOP 0006-3010 (F) QSOP 0006-3020 (J)	Accessibility probe Sharp point tester
Toys	Wires and rods	ASTM F963-11 Section 4.10 and 8.12 EN 71-1:2014 Section 4.8 and 8.13 ISO 8124-1:2014 Section 4.9 and 5.24.8 AS/NZS ISO 8124.1:2013 Section 4.9 and 5.24.8 GB 6675.2-2014 Section 4.9 and 5.24.8 QSOP 0006-3100 (F)	Sharp point tester, Force gauge, Flexure tester
Toys	Nails and fasteners	ASTM F963-11 Section 4.11 SOR/2011-17 Section 13 and 28	Accessibility probe Small parts cylinder Sharp point tester Sharp edge tester
Toys	Plastic films	ASTM F963-11 Section 4.12 and 8.21 EN 71-1:2014 Section 4.3, 5.3, 6. and 8.25 ISO 8124-1:2014 Section 4.10 and 5.10 AS/NZS ISO 8124.1:2013 Section 4.10 and 5.10 GB 6675.2-2014 Section 4.10 and 5.10 SOR/2011-17 Section 4 SRS-033 (P) QSOP 0006-3210 (O)	Micrometer, Steel ruler, Digital thickness gauge
Toys	Folding Mechanisms and Hinges	ASTM F963-11 Section 4.13 EN 71-1:2014 Section 4.10.3 ISO 8124-1:2014 Section 4.12.3 AS/NZS ISO 8124.1:2013 Section 4.12.3 GB 6675.2-2014 Section 4.12.3 SOR/2011-17 Section 14 SRS-064 (F)(Except for 5.1, 5.2, 6.1, 6.2, 6.3) QSOP 0006-3200 (N)(Except for 2.2, 2.3, 2.4)	Diameter rod Steel ruler Caliper



Items, Materials or Products Tested	Specific Tests or Properties Measured	Specification, Standard Method, or Technique Used	Key Equipment or Technology*
Toys	Cords, Straps and Elastics	ASTM F963-11 Section 4.14 and 8.22 EN 71-1:2014 Section 5.4, 5.14, and 8.20, 8.36, 8.38, 8.39, 8.40 ISO 8124-1:2014 Section 4.11 (except for 4.11.7) and 5.11 (except for 5.11.3) AS/NZS ISO 8124.1:2013 Section 4.11 (except for 4.11.7) and 5.11 (except for 5.11.3) GB 6675.2-2014 Section 4.11 (except for 4.11.7) and 5.11 (except for 5.11.3) SOR/2011-17 Section 41 QSOP 0006-3160 (W) (except for 2.1, 2.3)	Steel ruler, Digital vernier caliper, Test blocks, Tension gauge, Hook test fixture, Head probe
Toys	Confined spaces	ASTM F963-11 Section 4.16 EN 71-1:2014 Section 4.14 (except for 4.14.1c) ISO 8124-1:2014 Section 4.16 (except for 4.16.2.2) AS/NZS ISO 8124.1:2013 Section 4.16 (except for 4.16.2.2) GB 6675.2-2014 Section 4.16 (except for 4.16.2.2) SOR/2011-17 Section 17 SRS-106 (B)	Steel ruler, Digital vernier caliper Tension gauge
Toys	Wheels, Tires and Axles	ASTM F963-11 Section 4.17 and 8.11	Wheel tension clamp Dead weight
Toys	Holes, Clearance, and Accessibility of Mechanisms	ASTM F963-11 Section 4.18 EN 71-1:2014 Section 4.10.2, and 4.10.4 ISO 8124-1:2014 Section 4.13 and 4.14 AS/NZS ISO 8124.1:2013 Section 4.13 and 4.14 GB 6675.2-2014 Section 4.13 and 4.14 SOR/2011-17 Section 15. QSOP 0006-3189 (F) SRS-064 (F)(Except for 5.1, 5.2, 6.1, 6.2, 6.3)	Steel ruler, Digital vernier caliper, Diameter rod
Toys	Simulated Protective Devices	ASTM F963-11 Section 4.19 and 8.7 ISO 8124-1:2014 Section 4.17 and 5.14 AS/NZS ISO 8124.1:2013 Section 4.17 and 5.14 GB 6675.2-2014 Section 4.17 and 5.14 SRS-005 (N)	Impact test fixture
Toys	Toy Pacifiers	ASTM F963-11 Section 4.20 (exclude 4.20.1 Chemical test)	Pacifier test fixture Dead weight Steel ruler, Digital vernier caliper Small parts cylinder
Toys	Projectile Toys	ASTM F963-11 Section 4.21 and 8.14 EN 71-1:2014 Section 4.17 and 8.24 ISO 8124-1:2014 Section 4.18, and 5.15, 5.35, 5.36, 5.37 AS/NZS ISO 8124.1:2013 Section 4.18 and 5.15 GB 6675.2-2014 Section 4.18 and 5.15	Steel ruler, Digital vernier caliper, Kinetic Energy Tester Radius gauge
Toys	Teethers and Teething Toys	ASTM F963-11 Section 4.22 EN 71-1:2014 Section 5.8 and 8.16 ISO 8124-1:2014 Section 4.5 and 5.3 AS/NZS ISO 8124.1:2013 Section 4.5 and 5.3 GB 6675.2-2014 Section 4.5 and 5.3 QSOP 0006-3050 (AI)	Rattle test fixture, Supplemental rattle test fixture

Items, Materials or Products Tested	Specific Tests or Properties Measured	Specification, Standard Method, or Technique Used	Key Equipment or Technology*
Toys	Rattles	ASTM F963-11 Section 4.23 EN 71-1:2014 Section 5.8 and 8.16 ISO 8124-1:2014 Section 4.5 and 5.3 AS/NZS ISO 8124.1:2013 Section 4.5 and 5.3 GB 6675.2-2014 Section 4.5 and 5.3 SOR/2011-17 Section 40. QSOP 0006-3050 (AI)	Rattle test fixture, Supplemental rattle test fixture
Toys	Squeeze toys	ASTM F963-11 Section 4.24 EN 71-1:2014 Section 5.8 and 8.16 ISO 8124-1:2014 Section 4.5 and 5.3 AS/NZS ISO 8124.1:2013 Section 4.5 and 5.3 GB 6675.2-2014 Section 4.5 and 5.3 QSOP 0006-3050 (AI)	Rattle test fixture, Supplemental rattle test fixture
Toys	Battery-Operated Toys	ASTM F963-11 Section 4.25 (except for 4.25.10)	Thermometer, Digital multimeter
Toys	Toys Intended to be Attached to a Crib or Playpen	ASTM F963-11 Section 4.26	Visual
Toys	Stuffed and Beanbag-Type Toys	ASTM F963-11 Section 4.27 EN 71-1:2014 Section 5.2 and 8.4 SRS-007 (H) QSOP 0006-3070 (K)	Torque gauge, Tension gauge, Seam clamp
Toys	Stroller and Carriage Toys	ASTM F963-11 Section 4.28	Visual
Toys	Toy Gun Markings	ASTM F963-11 Section 4.30 ISO 8124-1:2014 Annex D AS/NZS ISO 8124.1:2013 Annex D GB 6675.2-2014 Annex D	Steel ruler, Digital vernier caliper
Toys	Balloons	ASTM F963-11 Section 4.31 EN 71-1:2014 Section 4.12 ISO 8124-1:2014 Section 4.5.6 AS/NZS ISO 8124.1:2013 Section 4.5.6 GB 6675.2-2014 Section 4.5.6	Visual
Toys	Certain Toys with Nearly Spherical Ends	ASTM F963-11 Section 4.32 EN 71-1:2014 Section 5.11 and 8.33 ISO 8124-1:2014 Section 4.5.4 and 5.6 AS/NZS ISO 8124.1:2013 Section 4.5.4 and 5.6 GB 6675.2-2014 Section 4.5.4 and 5.6	Supplemental rattle test fixture
Toys	Marbles	ASTM F963-11 Section 4.33 ISO 8124-1:2014 Section 4.5.7 AS/NZS ISO 8124.1:2013 Section 4.5.7 GB 6675.2-2014 Section 4.5.7 SRS-001(Q) QSOP 0006-3040 (S)	Visual
Toys	Balls	ASTM F963-11 Section 4.34 EN 71-1:2014 Section 4.22 and 5.10, 8.32 ISO 8124-1:2014 Section 4.5.2 and 5.4 AS/NZS ISO 8124.1:2013 Section 4.5.2 and 5.4 GB 6675.2-2014 Section 4.5.2 and 5.4 SRS-001 (Q) QSOP 0006-3050 (AI)	Small ball tester

Items, Materials or Products Tested	Specific Tests or Properties Measured	Specification, Standard Method, or Technique Used	Key Equipment or Technology*
Toys	Pompoms	ASTM F963-11 Section 4.35 and 8.16 ISO 8124-1:2014 Section 4.5.3 and 5.5 AS/NZS ISO 8124.1:2013 Section 4.5.3 and 5.5 GB 6675.2-2014 Section 4.5.3 and 5.5 SRS-001 (Q) QSOP 0006-3050 (AI)	Small ball tester
Toys	Hemispheric-Shaped Objects	ASTM F963-11 Section 4.36 EN 71-1:2014 Section 5.12 ISO 8124-1:2014 Section 4.5.8 AS/NZS ISO 8124.1:2013 Section 4.5.8 GB 6675.2-2014 Section 4.5.8 SRS-084 (C) QSOP 0006-3053 (M)	Steel ruler, Digital vernier caliper, Electronic balance, Protractor
Toys	Magnets	ASTM F963-11 Section 4.38 and 8.24 EN 71-1:2014 Section 4.23, 8.34 and 8.35 ISO 8124-1:2014 Section 4.31, 5.31, 5.32, 5.33 and 5.34 AS/NZS ISO 8124.1:2013 Section 4.30, 5.31, 5.32, 5.33 and 5.34 GB 6675.2-2014 Section 4.29, 5.26, 5.27, 5.28, 5.29 SRS-094 (F) QSOP 0006-3054 (K)	DC field gauss meter, axial probe, Digital vernier caliper, Steel ruler, Magnetic field viewing film
Toys	Jaw entrapment in handles and steering wheels	ASTM F963-11 Section 4.39 SRS-096 (A)	Gauge blocks, Visual
Toys	Instructional Literature	ASTM F963-11 Section 6.	Visual
Toys	Producer's Markings	ASTM F963-11 Section 7. EN 71-1:2014 Section 7. ISO 8124-1:2014 Annex B AS/NZS ISO 8124.1:2013 Annex B GB 6675.2-2014 Annex B	Visual
Toys	Safety Labeling Requirements	ASTM F963-11 Section 5 EN 71-1:2014 Section 7 ISO 8124-1:2014 Annex B AS/NZS ISO 8124.1:2013 Annex B GB 6675.2-2014 Annex A, B, C, D, E SOR/2011-17 Section 3. and 4. SRS-070 (V) SRS-076 (A) SRS-086 (E) SRS-101 (F) QSOP 0006-3500 (L) QSOP 0006-3501 (A) QSOP 0006-3510 (BO) QSOP 0006-3518 (C) QSOP 0006-3530 (AN) QSOP 0006-3539 (B) QSOP 0006-3549 (C) QSOP 0006-3568 (B) 2009/48/EC (Annex V Warnings)	Steel ruler, Digital vernier caliper, Visual

Items, Materials or Products Tested	Specific Tests or Properties Measured	Specification, Standard Method, or Technique Used	Key Equipment or Technology*
Toys	Normal use, Torque, Tension, Impact, Drop, Tumble test, Tip over test Compression, Flexure Bite	ASTM F963-11 Section 8.1, 8.5-8.10, 8.12 EN 71-1:2014 Section 8.1 and 8.3-8.8 ISO 8124-1:2014 Section 4.1, 4.2 and 5.1, 5.24.1, 5.24.2, 5.24.3, 5.24.5-5.24.8 AS/NZS ISO 8124.1:2013 Section 4.1, 4.2 and 5.1, 5.24.1, 5.24.2, 5.24.3, 5.24.5-5.24.8 GB 6675.2-2014 Section 4.1, 4.2 and 5.1, 5.24.1, 5.24.2, 5.24.3, 5.24.5-5.24.8 SRS-005 (N) (except for 2.6, 2.7, 2.9, 7.5, 7.6, 7.7) SRS-006 (H) SRS-007 (H) SRS-008 (H) QSOP 0006-3060 (I) QSOP 0006-3070 (K) QSOP 0006-3100 (F) QSOP 0006-3110 (I) QSOP 0006-3120 (I) QSOP 0006-3130 (G) CPSC 16CFR 1500.50, 1500.51, 1500.52, 1500.53	Torque gauge, Tension gauge, Drop test floor, Tumble test step, Impact test fixture, Compression test disk, Flexure test fixture, Bite tester
Toys	Assembly	EN 71-1:2014 Section 4.2	Visual
Toys	Toy bags	EN 71-1:2014 Section 4.4	Steel ruler, Digital vernier caliper
Toys	Glass	EN 71-1:2014 Section 4.5 and 5.7 SOR/2011-17 Section 12	Accessibility probe, Sharp point tester, Sharp edge tester
Toys	Expanding materials	EN 71-1:2014 Section 4.6 and 8.14 ISO 8124-1:2014 Section 4.3.2 and 5.21 AS/NZS ISO 8124.1:2013 Section 4.3.2 and 5.21 GB 6675.2-2014 Section 4.3.2 and 5.21	Small parts cylinder, Digital vernier caliper, Thermometer
Toys	Aquatic toys and inflatable toys	EN 71-1:2014 Section 4.18 and 8.3 and 8.4 (except for EN-15649-3) ISO 8124-1:2014 Section 4.20 AS/NZS ISO 8124.1:2013 Section 4.19 GB 6675.2-2014 Section 4.19	Torque gauge, Tension gauge, Digital vernier caliper
Toys	Soaking test	EN 71-1:2014 Section 4.23 and 8.9 ISO 8124-1:2014 Section 4.31 and 5.34 AS/NZS ISO 8124.1:2013 Section 4.30 and 5.34 GB 6675.2-2014 Section 4.29 and 5.29 QSOP 0006-3052 (B)	Thermometer, Stopwatch
Toys	Toys attached to food	EN 71-1:2014 Section 4.25	Torque gauge, Tension gauge, Drop test floor, Compression test disk, Small parts cylinder, Small ball tester
Toys	Toys comprising monofilament fibres	EN 71-1:2014 Section 5.9	Steel ruler

Items, Materials or Products Tested	Specific Tests or Properties Measured	Specification, Standard Method, or Technique Used	Key Equipment or Technology*
Toys	Suction cups	EN 71-1:2014 Section 5.13 and 8.32 SRS-091 (A)	EN Small ball tester, Steel ruler, Hasbro small ball template
Toys	Age-grading guidelines	ASTM F963-11 Annex A1 ISO 8124-1:2014 Annex A AS/NZS ISO 8124.1:2013 Annex A GB 6675.2-2014 Annex A	Visual
Toys	Wood	ASTM F963-11 Section 4.9.3 ISO 8124-1:2014 Section 4.7.3 AS/NZS ISO 8124.1:2013 Section 4.7.3 GB 6675.2-2014 Section 4.7.3 SOR/2011-17 Section 11	Visual
Toys	Projectile components	SOR/2011-17 Section 16	Tension gauge
Toys	Stability	SOR/2011-17 Section 18.	Visual
Toys	Plant seeds - noise	SOR/2011-17 Section 35.	Visual
Toys	Plant seeds - stuffing materials	SOR/2011-17 Section 36.	Visual
Toys	Shaft-like handles	SOR/2011-17 Section 37.	Digital vernier caliper, Tension gauge
Toys	Water-based paints	SOR/2011-17 Section 39.	Visual
Toys	Children's Products Containing Lead; Interpretative Rule on Inaccessible Component Parts	CPSC 16CFR 1500.87	Accessibility probes
Toys	Flammability	ASTM F963-11 Section 4.2 (excluding dry cleaning) US CPSC 16 CFR 1500.44 US CPSC 16 CFR 1610 (excluding dry cleaning) EN 71-2:2011+A1:2014 (except for soak wash) ISO 8124-2:2014 AS/NZS ISO 8124.2:2009 GB 6675.3-2014 (Except for: tests for highly flammable solids and liquids, flammable gases, liquids and gels) SOR/2011-17 Section 21, 32, 33 and 34 SRS-013 (L) QSOP 0006-3300 (L) (except for 3.4.2)	Flammability apparatus, Specimen holder, Fume hood, Flammability test fixture, Stopwatch, Steel ruler

Items, Materials or Products Tested	Specific Tests or Properties Measured	Specification, Standard Method, or Technique Used	Key Equipment or Technology*
Consumables/Toys	Transportation test	ISTA 1A:2014 SRS-010 (E) QSOP 0006-4350 (G) (Except for: 2.2, 3.4.6) Hallmark Document #1301 (Revision October 2015)	Vibration Test machine, Carton drop test machine, Drop test floor
Consumables/Toys	Corrugated fiberboard- Determination of bursting strength	GB/T 6545-1998 TAPPI T810 OM-2011	Electro_Burst Strength Tester
Toys	Temperature Conditioning Test	SRS-011(F)	Environmental chamber
Toys	Humidity Test	SRS-024 (F) QSOP 0006-4410 (A)	Humidity Chamber
Toys	Surface Coating Adhesion	SRS-029(E) QSOP 0006-4030 (F)	Tape 3M 810#, Tape 3M 893#
Toys	Surface Coating Abrasion	SRS-032(C) QSOP 0006-4050 (B)	Eberhard Faber (#400) Taber Industries Wearaser # CS-8
Toys	Tracking Labeling - Date Coding	SRS-034 (E) QSOP 0006-3598 (R)	Visual
Toys	Aging Test	SRS-043 (E) QSOP 0006-4400 (C)	Aging Chamber
Toys	Bond / Weld Analysis	SRS-050 (B)	Visual
Toys	Euro-Specific Requirement	SRS-081 (A) (Except for: 4.2.1, 4.3, 4.5 to 4.10, 4.12)	Small part cylinder, Steel ruler, Digital vernier caliper Tension gauge,
Consumables/Toys	Freeze-Thaw Test	SRS-095 (A) Hallmark Quality Test Details FT01FR	Environmental chamber
Toys	Gameboards	STI-201 (F)	Environmental chamber, Steel ruler
Toys	Dice	STI-203 (B)	Dice shake machine
Toys	Sand Timers	STI-205(D)	Tension gauge
Toys	Package safety	QSOP 0006-3056(L) (Except for: 2.3.4, 3.4.2, 3.4.3, 3.4.4)	Tension tester

<b>Items, Materials or Products Tested</b>	<b>Specific Tests or Properties Measured</b>	<b>Specification, Standard Method, or Technique Used</b>	<b>Key Equipment or Technology*</b>
Toys	Label Adhesion	QSOP0006-4020 (D)	Adhesive Tape (3M #810)
Toys	Package Integrity	QSOP0006-4300 (J)	Steel ruler, Tension gauge
Consumables/Toys	Bar Code Testing	QSOP0006-4340 (L) QSOP0006-4341 (K) Hallmark Testing UPC manual (2007-1-17)	Bar code scanner
Toys	Master Carton Compression test	QSOP0006-4360 (C)	Compression tester
Toys	Master Carton Stability	QSOP0006-4361 (B)	Steel ruler, Stability Gauge
Toys	Master Carton on Flap Alignment	QSOP0006-4362 (PR)	Steel ruler, Visual
Consumables / Toys	Fade (Seasonal 2D products/paper, 36 kj)	Hallmark Quality Test Details FA01FR	Fade Resistance tester ATLAS CPS+
Consumables / Toys	Age Test (10 days, 120 deg F, 80% R.H.)	Hallmark Quality Test Details AC04FR	Humidity Chamber
Consumables / Toys	Age Test (5 days, 120 deg F, 80% R.H.)	Hallmark Quality Test Details AC07FR	Humidity Chamber
Consumables / Toys	Bleed (paper)	Hallmark Quality Test Details BL02FR	Stopwatch
Consumables / Toys	Bleed (non-paper)	Hallmark Quality Test Details BL01FR	Stopwatch, Visual
Consumables / Toys	Rub (printed inks, dry)	Hallmark Quality Test Details RR01FR	Rub-off tester, Sutherland
Consumables / Toys	Rub (printed inks, wet)	Hallmark Quality Test Details RR05FR	Rub-off tester, Sutherland
Pacifiers	Guard or shield requirements	CPSC 16CFR 1511.3 Canada C.R.C., c.930 Section 6	Pacifier test fixture, Dead weight, Pin gauge, Stopwatch
Pacifiers	Protrusions	CPSC 16CFR 1511.4 Canada C.R.C., c.930 Section 6	Force gauge, Digital vernier caliper, Steel ruler

Items, Materials or Products Tested	Specific Tests or Properties Measured	Specification, Standard Method, or Technique Used	Key Equipment or Technology*
Pacifiers	Structural integrity tests	CPSC 16CFR 1511.5 Canada C.R.C., c.930 Section 6, Schedule II	Small parts cylinder, Sharp points tester, Sharp edges tester, Boiler, Force gauge, Dead weight, Stopwatch
Pacifiers	Ribbons, strings, cords, or other attachments.	CPSC 16CFR 1511.6 Canada C.R.C., c.930 Section 6	Visual
Pacifiers	Labeling	CPSC 16CFR 1511.7 Canada C.R.C., c.930 Section 4	Visual

### III. Dimensional Calibration

Parameter/ Equipment	Range	Calibration and Measurement Capability [Expressed as Uncertainty( $\pm$ )]	Reference Standard or Equipment	Methods
Calipers	Up to 200 mm	17 $\mu$ m	Gauge Blocks Grade 2	JJG30-2012
Micrometer	Up to 25.4 mm	1.7 $\mu$ m	Gauge Blocks Grade 2	JJG21-2008
Steel Ruler	Up to 1200 mm	80 $\mu$ m	Standard Rule Feeler Gauge Measuring Microscopes	JJG1-1999

### IV. Mechanical Calibration

Parameter/ Equipment	Range	Calibration and Measurement Capability [Expressed as Uncertainty( $\pm$ )]	Reference Standard or Equipment	Methods
Electronic Balances	Up to 7.5 kg	16 mg	Class F1 Weights	JJG1036-2008
Digital Indicating Weighing Instrument	Up to 150 kg	5g	Class M1 Weights	JJG539-97



**V. Time & Frequency Calibration**

Parameter/ Equipment	Range	Calibration and Measurement Capability [Expressed as Uncertainty(±)]	Reference Standard or Equipment	Methods
Stopwatch	Up to 36 000 s	0.02s	Time Synthesizer	JJG237-2010

**Notes:**

1. \* = as applicable.
2. This scope is formatted as part of a single document including Certificate of Accreditation No. AT-1399.

  
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 Vice President

