



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

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MECHANICAL

Valid To: January 31, 2021

Certificate Number: 2781.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following toy safety tests¹:

Test:

Test Methods:

Accessibility

In-House test method QSOP 3010, based on the following standards:
ASTM F963-17 (3.1, 3.1.2);
EN 71-1 (8.10);
ISO 8124-1 (5.7);
16 CFR 1500.48,
16 CFR 1500.49;
IS 9873-1 (5.7);
AS/NZ 8124-1 (5.7)

Other Methods:
NM 300-1 (5.7)

Sharp Points

In-House test method QSOP 3020, based on the following standards:
ASTM F963-17 (4.9, 4.10, 4.11);
EN 71-1 (4.8, 7.6, 8.12);
ISO 8124-1 (4.7, 4.9, 5.9);
16 CFR 1500.48,
16 CFR 1500.50,
16 CFR 1500.51,
16 CFR 1500.52,
16 CFR 1500.53;
IS 9873-1 (4.7, 4.9, 5.9);
AS/NZ 8124-1 (4.7, 4.9, 5.9)

Other Methods:
NM 300-1 (4.7, 4.9, 5.9)

Sharp Edges

In-House test method QSOP 3030, based on the following standards:
ASTM F963-17 (4.7, 8.5, 8.10);
EN 71-1 (4.8, 7.6, 8.5, 8.7, 8.8, 8.11);
ISO 8124-1 (4.6, 4.9, 5.8);

Test:

Test Methods:

Sharp Edges (*cont.*)

16 CFR 1500.49,
16 CFR 1500.50,
16 CFR 1500.51,
16 CFR 1500.52,
16 CFR 1500.53;
IS 9873-1 (4.6, 4.9, 5.8);
AS/NZ 8124-1 (4.6, 4.9, 5.8);
Canada Consumer Product Safety Act – Specific Toxic Substances –
Toy Regulations – SOR/2011-17 (8, 10, 11, 12)

Other Methods:
NM 300-1 (4.6, 4.9, 5.8)

Projections

In-House test method QSOP 3035, based on the following standards:
ASTM F963-17 (4.8, 8.5-8.10);
EN 71-1 (4.9, 8.3);
ISO 8124-1 (4.8, 5.24.5);
16 CFR 1500.50,
16 CFR 1500.51,
16 CFR 1500.52,
16 CFR 1500.53;
IS 9873-1 (4.8, 5.24.5);
AS/NZ 8124-1 (4.8, 5.24.5)

Other Methods:
NM 300-1 (4.8, 5.25.5)

Small Parts, Balls, and Marbles

In-House test method QSOP 3040, based on the following standards:
ASTM F963-17 (4.6, 4.33, 4.34, 8.13);
EN 71-1 (4.11, 4.22, 5.10, 8.12);
ISO 8124-1 (4.4, 4.5.2, 4.5.7, 5.2);
16 CFR 1501,
16 CFR 1500.18,
16 CFR 1500.19,
16 CFR 1500.50,
16 CFR 1500.51,
16 CFR 1500.52,
16 CFR 1500.53;
IS 9873-1 (4.3.2, 4.4, 4.5.7, 4.18.2, 4.25, 5.2, 5.4);
AS/NZ 8124-1 (4.3.2, 4.4, 4.4.2, 4.5.7, 4.18.2, 4.25, 5.2, 5.4);
Canada Consumer Product Safety Act – Specific Toxic Substances –
Toy Regulations – SOR/2011-17 (7, 30)

Other Methods:
NM 300-1 (4.3.2, 4.4, 4.5.7, 4.18.2, 4.25, 5.2, 5.4)

Entanglement Test

In-House test method QSOP 3049, based on the following standards:
ASTM F963-17 (4.14, 4.26, 8.5-8.10);
EN 71-6 (7.11);
IS 9873-1 (4.11.5, 4.11.6);
AS/NZ 8124-1 (4.11.5, 4.11.6)

Other Methods:
NM 300-1 (4.11.5)

Test:

Test Methods:

Choking / Suffocation / Hazardous Shapes

In-House test method QSOP 3050, based on the following standards:
ASTM F963-17 (4.6, 4.25, 4.32.3);
EN 71-1 (7.2);
ISO 8124-1 (4.5);
16 CFR 1500,
16 CFR 1510;
IS 9873-1 (A.42);
AS/NZ 8124-1 (A.42)

Other Methods:
NM 300-1 (A.42)

Cup Shaped Objects

In-House test method QSOP 3053, based on the following standards:
ASTM F963-17 (Sections 4.23.1, 4.32, 4.36, 8.5-8.10);
EN 71-1 (5.12);
ISO 8124-1 (4.5.8);
IS 9873-1 (4.5.8)

Torque and Tension

In-House test method QSOP 3060, based on the following standards:
ASTM F963-17 (Sections 8.8, 8.9);
EN 71-1 (8.4.2);
ISO 8124-1 (5.24.5, 5.24.6);
16 CFR 1500.50,
16 CFR 1500.51,
16 CFR 1500.52,
16 CFR 1500.53;
IS 9873-1 (5.24.5, 5.24.6);
AS/NZ 8124-1 (5.24.5, 5.24.6)

Other Methods:
NM 300-1 (5.25.5)

Seam and Attachment Strength

In-House test method QSOP 3070, based on the following standards:
ASTM F963-17 (Sections 4.27, 8.9.1);
EN 71-1 (8.4.2);
ISO 8124-1 (5.24.6.2);
16 CFR 1500.51;
IS 9873-1 (5.24.6.2);
AS/NZ 8124-1 (5.24.6.2)

Other Methods:
NM 300-1 (5.25.6.1)

Bite Test

In-House test method QSOP 3080, based on the following standard:
16 CFR 1500.51

Compression

In-House test method QSOP 3110, based on the following standards:
ASTM F963-17 (Section 8.10);
EN 71-1 (8.8);
ISO 8124-1 (5.24.7);
16 CFR 1500.50,
16 CFR 1500.51,
16 CFR 1500.52,
16 CFR 1500.53;

Test:

Test Methods:

Compression (*cont.*)

IS 9873-1 (5.24.7);
AS/NZ 8124-1 (5.24.7)

Other Methods:
NM 300-1 (5.25.7)

Drop and Tip-Over Test

In-House test method QSOP 3120, based on the following standards:
ASTM F963-17 (8.5, 8.6, 8.7.1, 8.7.2);
EN 71-1 (8.5, 8.6);
ISO 8124-1 (5.24.2, 5.24.3);
16 CFR 1500.51;
IS 9873-1 (5.25.2, 5.25.3);
AS/NZ 8124-1 (5.24.2, 5.24.3)
Canada Consumer Product Safety Act – Specific Toxic Substances –
Toy Regulations – SOR/2011-17 (Schedule 9)

Other Methods:
NM 300-1 (5.25.2, 5.25.3)

Bar Impact Test

In-House test method QSOP 3130, based on the following standards:
ASTM F963-17 (8.7);
EN 71-1 (8.7);
ISO 8124-1 (5.14);
16 CFR 1500.51;
IS 9873-1 (5.14);
AS/NZ 8124-1 (5.14)

Other Methods:
NM 300-1 (5.14)

Tumble Test

In-House test method QSOP 3140, based on the following standard:
ASTM F963-17 (Section 8.7.3)

Stability

In-House test method QSOP 3151, based on the following standards:
ASTM F963-17 (4.15, 8.21);
EN 71-1 (8.22);
ISO 8124-1 (4.15, 5.12.5, 5.24.4);
IS 9873-1 (4.15, 5.12.5, 5.24.4);
AS/NZ 8124-1 (4.15, 5.12.5, 5.24.4)

Other Methods:
NM 300-1 (4.15, 5.12.5, 5.24.4)

In-House test method QSOP 3152, based on the following standards:
ASTM F963-17 (4.15, 8.15);
EN 71-1 (4.15.1.4, 8.23);
ISO 8124-1 (4.15, 5.12);
IS 9873-1 (4.15, 5.12);
AS/NZ 8124-1 (4.15, 5.12);
Canada Consumer Product Safety Act – Specific Toxic Substances –
Toy Regulations – SOR/2011-17

Other Methods:
NM 300-1 (4.15, 5.12)

Test:

Test Methods:

Static Strength – Product Likely but Not Intended to Support a Child’s Weight

In-House test method QSOP 3153, based on the following standards:
ASTM F963-17 (8.15.4);
EN 71-1 (8.21, A9);

Other Methods:
NM 300-1 (5.12.5)

Cords, Strings, and Elastics

In-House test method QSOP 3160, based on the following standards:
ASTM F963-17 (Sections 4.14, 8.5-8.10);
EN 71-1 (5.4, 7.22, 8.20, 8.36);

Cords, Strings, and Elastics (*cont.*)

ISO 8124-1 (4.11, 5.11);
IS 9873-1 (4.11, 5.11);
AS/NZ 8124-1 (4.11, 5.11);
Canada Consumer Product Safety Act – Specific Toxic Substances – Toy Regulations – SOR/2011-17 (42)

Other Methods:
NM 300-1 (4.11, 5.11)

Projectiles and Flying Toys

In-House test method QSOP 3170, based on the following standards:
ASTM F963-17 (Sections 4.21, 8.14);
ISO 8124-1 (4.17, 7.7, 8.17.1, 8.24.1);
EN 71-1 (4.18, 5.15, 5.35, 5.36, 5.37);
IS 9873-1 (4.18, 5.15);
AS/NZ 8124-1 (4.18, 5.15);
Canada Consumer Product Safety Act – Specific Toxic Substances – Toy Regulations – SOR/2011-17 (16)

Other Methods:
NM 300-1 (4.18, 5.15)

Wheel / Axle Assembly

In-House test method QSOP 3180, based on the following standard:
ASTM F963-17 (Sections 4.17, 8.11)

Abnormal Operation of Battery and Transformer Toys

In-House test method QSOP 3265, based on the following standards:
ASTM F963-17 (4.25, 8.5-8.12);
EN 62115 (9);
16 CFR 1605;
Canada Consumer Product Safety Act – Specific Toxic Substances – Toy Regulations – SOR/2011-17 (5, 6)

Electrical Strength of Battery and Transformer Toys

In-House test method QSOP 3266, based on the following standard:
EN 62115 (10)

Moisture Resistance of Battery and Transformer Toys

In-House test method QSOP 3267, based on the following standard:
EN 62115 (11)

Mechanical Strength of Battery and Transformer Toys

In-House test method QSOP 3268, based on the following standard:
EN 62115 (13)

Plugs / Sockets / Exposed Wires of Battery and Transformer Toys

In-House test method QSOP 3269, based on the following standard:
EN 62115 (14.10)

Test:**Test Methods:**

Screws and Fasteners of Battery and Transformer Toys	In-House test method QSOP 3271, based on the following standards: EN 62115 (17)
Creepage Distances and Clearances of Electronic Assemblies	In-House test method QSOP 3272, based on the following standard: EN 62115 (18)
Battery Leakage Protection	In-House test method QSOP 3273, based on the following standards: ASTM F963-17 (4.25); EN 62115 (14.16)
Batteries and Battery Operated Products	In-House test method QSOP 3274, based on the following standards: ASTM F963-17 (Sections 4.25, 8.5-8.12); EN 62115 (14.7, 14.16)
Protection of Electrical Cords and Wires	In-House test method QSOP 3276, based on the following standards: EN 62115 (15) IEC 62115 (14)
Handles and Steering Wheels	In-House test method QSOP 3145, based on the following standards: ASTM F963-17 (Sections 4.39, 8.5-8.10); ISO 8124-1 (4.30.5); IS 9873-1 (4.29.5)
Entrapment – Openings in Rigid Materials	In-House test method QSOP 3189, based on the following standards: ASTM F963-17 (Sections 4.18, 8.5-8.10); ISO 8124-1 (4.13.1); IS 9873-1 (4.13.1) Other Methods: NM 300-1 (4.13.1)
Entrapment – Toys Under 18 Months with Undercuts	In-House test method QSOP 3195, based on the following standard: ISO 8124-1 (4.5.1.4)
Movable Parts and Hinge Line Clearance	In-House test method QSOP 3200, based on the following standards: ASTM F963-17 (Sections 4.13, 8.5-8.10); EN 71-1 (4.10.2); ISO 8124-1 (4.13.2); IS 9873-1 (4.13.2) Other Methods: NM 300-1 (4.13.2)

Test:

Test Methods:

Plastic Bags and Films

In-House test method QSOP 3210, based on the following standards:
ASTM F963-17 (4.12, 8.22);
EN 71-1 (4.3, 5.3, 8.25);
ISO 8124-1 (4.10, 5.10);
IS 9873-1 (4.10, 5.10);
AS/NZ 8124-1 (4.10, 5.10);
Canada Consumer Product Safety Act – Specific Toxic Substances –
Toy Regulations – SOR/2011-17 (4)

Other Methods:
NM 300-1 (4.10, 5.10)

Sound Pressure Levels

In-House test method QSOP 3400, based on the following standards:
ASTM F963-17 (Sections 4.5.);
EN 71-1 (4.20, 8.28);
16 CFR 1500.47;
ISO 8124-1 (4.29, 5.25);
IS 9873-1 (4.28, 5.25)

Other Methods:
NM 300-1 (4.28, 5.26)

Safety Labeling Format

In-House test method QSOP 3500, based on the following standards:
ASTM F963-17 (5, 6);
EN 71-1 (7);
16 CFR 1500.14,
16 CFR 1500.82,
16 CFR 1500.121,
16 CFR 1500.125;
ISO 8124-1 (Annex B);
IS 9873-1 (Annex B);
AS/NZ 8124-1 (Annex C)

Other Methods:
NM 300-1 (Annex B)

Labeling – Package Copy

In-House test method QSOP 3510, based on the following standards:
ASTM F963-17 (5, 6);
EN 71-1 (7);
16 CFR 1500.14,
16 CFR 1500.82,
16 CFR 1500.121,
16 CFR 1500.125;
ISO 8124-1 (Annex B);
IS 9873-1 (Annex B)

Other Methods:
NM 300-1 (Annex B)

Test:

Test Methods:

Labeling – Cords, Strings, and
Elastics

In-House test method QSOP 3524, based on the following standards:
ASTM F963-17 (5, 6);
EN 71-1 (7);
16 CFR 1500.14,
16 CFR 1500.82,
16 CFR 1500.121,
16 CFR 1500.125;
ISO 8124-1 (Annex B);
IS 9873-1 (Annex B)

Other Methods:
NM 300-1 (Annex B)

Labeling – Instructions Copy

In-House test method QSOP 3920, based on the following standards:
ASTM F963-17 (5, 6);
EN 71-1 (7);
16 CFR 1500.14,
16 CFR 1500.82,
16 CFR 1500.121,
16 CFR 1500.125;
ISO 8124-1 (Annex B);
IS 9873-1 (Annex B)

Other Methods:
NM 300-1 (Annex B)

Labeling – Batteries and Battery
Operated Products

In-House test method QSOP 3535, based on the following standards:
EN 71-1 (7);
16 CFR 1500.14,
16 CFR 1500.82,
16 CFR 1500.121,
16 CFR 1500.125;
ISO 8124-1 (Annex B);
IS 9873-1 (Annex B);
AS/NZ 8124-1 (Annex C)

Other Methods:
NM 300-1 (Annex B)

Labeling – Products with Circuit
Boards

In-House test method QSOP 3544, based on the following standards:

ASTM F963-17 (5, 6);
EN 71-1 (7);
16 CFR 1500.14,
16 CFR 1500.82,
16 CFR 1500.121,
16 CFR 1500.125;
ISO 8124-1 (Annex B);
IS 9873-1 (Annex B);
AS/NZ 8124-1 (Annex C)

Other Methods:
NM 300-1 (Annex B)

Test:

Labeling – Mobiles / Crib and
Playpen Attached Toys / Edges

Test Methods:

In-House test method QSOP 3545, based on the following standards:

ASTM F963-17 (5, 6);
EN 71-1 (7);
16 CFR 1500.14,
16 CFR 1500.82,
16 CFR 1500.121,
16 CFR 1500.125;
ISO 8124-1 (Annex B);
IS 9873-1 (Annex B)

Other Methods:
NM 300-1 (Annex B)

Labeling – Functional Sharp Points

In-House test method QSOP 3549, based on the following standards:

ASTM F963-17 (5, 6);
EN 71-1 (7);
16 CFR 1500.14,
16 CFR 1500.82,
16 CFR 1500.121,
16 CFR 1500.125;
ISO 8124-1 (Annex B);
IS 9873-1 (Annex B)

Other Methods:
NM 300-1 (Annex B)

Labeling – Unassembled Products

In-House test method QSOP 3556, based on the following standards:

ASTM F963-17 (5, 6);
EN 71-1 (7);
16 CFR 1500.14,
16 CFR 1500.82,
16 CFR 1500.121,
16 CFR 1500.125;
ISO 8124-1 (Annex B);
IS 9873-1 (Annex B)

Other Methods:
NM 300-1 (Annex B)

Labeling for Infant Swings

In-House test method QSOP 3587, based on the following standards:

ASTM F963-17 (5, 6);
EN 71-1 (7);
16 CFR 1500.14,
16 CFR 1500.82,
16 CFR 1500.121,
16 CFR 1500.125;
ISO 8124-1 (Annex B);
IS 9873-1 (Annex B)

Other Methods:
NM 300-1 (Annex B)

Test:

Test Methods:

Labeling – Warning Statements for
Booster Seats

In-House test method QSOP 3589, based on the following standards:
ASTM F963-17 (5, 6);
ASTM F404;
EN 71-1 (7);
16 CFR 1500.14,
16 CFR 1500.82,
16 CFR 1500.121,
16 CFR 1500.125;
ISO 8124-1 (Annex B);
IS 9873-1 (Annex B)

Other Methods:
NM 300-1 (Annex B)

Sand Abrasion to Surface Coatings

In-House test method QSOP 4010, based on the following standard:
ASTM D968

Surface Coatings Adhesion
(Tape Pull)

In-House test method QSOP 4030, based on the following standards:
ASTM D3359;
ISO 2409

Fabric Washability

In-House test method QSOP 3178, based on the following standards:
ASTM F963-17 (8.5.1);
EN 71-1 (A.26);
ISO 8124-1 (4.1, 5.23);
IS 9873-1 (4.1, 5.23);
AS/NZ 8124-1 (4.1, 5.23);
Canada Consumer Product Safety Act – Specific Toxic Substances –
Toy Regulations – SOR/2011-17 (5)

Other Methods:
NM 300-1 (4.1, 5.23)

Master Carton Compression Test

In-House test method QSOP 4360, based on the following standard:
ASTM D642

Crocking Test

In-House test method QSOP 4100, based on the following standard:
AATCC Test Method 8

Flammability of Solids, Granules,
Pastes and Powders

In-House test method QSOP 3300, based on the following standards:
ASTM F963-17 (4.2, Annex A5);
EN 71-2;
ISO 8124-2;
16 CFR 1500.3 (c)(6)(vi),
16 CFR 1500.44;
IS 9873-2

Other Methods:
NM 300-2

Test:

Test Methods:

Flammability of Stuffed Toys

In-House test method QSOP 3302, based on the following standards:
ASTM F963-17 (Annex A5);
EN 71-2 (4.5, 5, Annex 7);
ISO 8124-2;
IS 9873-2

Other Methods:
NM 300-2

Flammability of Fabrics

In-House test method QSOP 3320, based on the following standards:
ASTM F963-17 (Annex A6);
EN 71-2;
ISO 8124-2;
16 CFR 1610,
16 CFR 1615,
16 CFR 1616;
IS 9873-2

Other Methods:
NM 300-2

Flammability of Hair and Mane

In-House test method QSOP 3322, based on the following standard:
Canada Consumer Product Safety Act – Specific Toxic Substances –
Toy Regulations – SOR/2011-17 (34)

Flammability of Products with Fabrics
for DI into Canada

In-House test method QSOP 3321, based on the following standards:
CHPA Method F01;
Canada Consumer Product Safety Act – Specific Toxic Substances –
Toy Regulations – SOR/2011-17 (32)

Standard Consumer Safety
Specification for Booster Seats

ASTM F2640

Standard Consumer Safety
Specification for Infant Bath Tubs

ASTM F2670
16 CFR 1234

¹ The Consumer Product Safety Improvement Act (CPSIA) requires that every children's product subject to a federal consumer product safety requirement be tested by a Consumer Product Safety Commission (CPSC) accepted laboratory for compliance with the applicable federal children's product safety requirements. Accreditation by A2LA does not infer acceptance by the CPSC. Please verify this organization's acceptance status by using the CPSC's searchable database, located at <http://www.cpsc.gov/cgi-bin/labsearch/>.



Accredited Laboratory

A2LA has accredited

MABAMEX S.A. DE C.V.

Tijuana, Baja California, Mexico

for technical competence in the field of

Mechanical Testing

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 *General requirements for the competence of testing and calibration laboratories*. 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 April 2017).



Presented this 29th day of January 2019.

A blue ink signature of the Vice President of Accreditation Services.

Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 2781.01
Valid to January 31, 2021

For the tests to which this accreditation applies, please refer to the laboratory's Mechanical Scope of Accreditation.