



TEST REPORT

Test Report # 18H-009180 Date of Report Issue: December 11, 2018
 Date of Sample Received: November 26, 2018 Pages: Page 1 of 15

CLIENT INFORMATION:

Company: Hit Promotional Products
 Recipient: Nathan Cotter
 Recipient Email: ncotter@hitpromo.net



SAMPLE INFORMATION:

Description:	21 Oz. Aluminum Chroma Bottle		
Assortment:	6 colors	Purchase Order Number:	285575
SKU No.:	5721	Agent:	Growth-Sonic
Factory No.:	127827	Country of Origin:	China
Country of Distribution:	United States	Labeled Age Grade:	-
Quantity Submitted:	5 pcs per style + 1 lot (Dry paint, Parts)	Recommended Age Grade:	-
Testing Period:	11/26/2018 – 12/11/2018	Tested Age Grade:	-

OVERALL RESULT:



Refer to page 2 for test result summary and appropriate notes.

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The above test(s) is/are accredited under the laboratory's ISO/IEC 17025 accreditation issued by the ANSI-ASQ National Accreditation Board (ANAB) according to certificate and scope of accreditation (Certificate # AT-1500.) Test(s) marked with '#' is/are not covered under the scope of accreditation.

The test result(s) and conclusion(s) in this report relate to the sample(s) tested as described herein.

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**TEST RESULTS SUMMARY:**

At the request of the client, the following tests were conducted:

CONCLUSION	TEST(S) CONDUCTED
PASS	CPSIA Section 101 & 16 CFR 1303, Total Lead in Paints and Surface Coatings
PASS	California Proposition 65, Total Lead in Paints and Surface Coatings
PASS	CPSIA Section 101, Total Lead in Substrate Materials
PASS	California Proposition 65, Total Lead in Substrate Materials
PASS	Client's Requirement, Bisphenol A and Bisphenol S [#]
PASS	FDA 21 CFR 177.1210, Closures with Sealing Gaskets [#]
PASS	FDA 21 CFR 177.1520, Polypropylene Copolymers
PASS	Food and Drug Administration Compliance Program Guidance Manual 7304.019 Chapter 04 Toxic Elements in Food and Foodware - Leachable Lead and Cadmium [#]
PASS	ASTM B117-16 Resistance to Corrosion [#]
PASS	Canadian Consumer Products Containing Lead Regulations (SOR/2018-83), Total Lead Content

**DETAILED RESULTS:****CPSIA Section 101 & 16 CFR 1303, Total Lead in Paints and Surface Coatings**

Test Method: CPSC-CH-E-1003-09.1

Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

Specimen No.	1+2+3	4+5+6	7+8	---	---	Total Limit (ppm)
Test Item	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	
Total Lead (Pb)	32	ND	ND	---	---	90
Conclusion	PASS	PASS	PASS	---	---	

Note:

ppm (Parts per million) = mg/kg (Milligrams per kilogram)

LT = Less than

ND = Not detected (Reporting Limit = 20 ppm)

Composite results are based on specimen of least mass resulting in highest potential concentration.



DETAILED RESULTS:

California Proposition 65, Total Lead in Paints and Surface Coatings

Test Method: CPSC-CH-E-1003-09.1

Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

Specimen No.	1+2+3	4+5+6	7+8	---	---	Total Limit (ppm)
Test Item	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	
Total Lead (Pb)	32	ND	ND	---	---	90
Conclusion	PASS	PASS	PASS	---	---	

Note:

ppm (Parts per million) = mg/kg (Milligrams per kilogram)

LT = Less than

ND = Not detected (Reporting Limit = 20 ppm)

Composite results are based on specimen of least mass resulting in highest potential concentration.

Remark:

The specification is quoted from client's requirement.

**DETAILED RESULTS:****CPSIA Section 101, Total Lead in Substrate Materials**

Test Method: CPSC-CH-E1001-08.3 (Metal), CPSC-CH-E1002-08.3 (Non-Metal)

Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

Specimen No.	9+10	11+12+13	14+15	16	17	Total Limit (ppm)
Test Item	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	
Total Lead (Pb)	ND	ND	ND	ND	ND	100
Conclusion	PASS	PASS	PASS	PASS	PASS	

Note:

ppm (Parts per million) = mg/kg (Milligrams per kilogram)

LT = Less than

ND = Not detected (Reporting Limit = 20 ppm)

Composite results are based on specimen of least mass resulting in highest potential concentration.

**DETAILED RESULTS:****California Proposition 65, Total Lead in Substrate Materials**

Test Method: CPSC-CH-E1001-08.3 (Metal), CPSC-CH-E1002-08.3 (Non-Metal)
Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

Specimen No.	9+10	11+12+13	14+15	16	17	Total Limit (ppm)
Test Item	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	
Total Lead (Pb)	ND	ND	ND	ND	ND	100
Conclusion	PASS	PASS	PASS	PASS	PASS	

Note:

ppm (Parts per million) = mg/kg (Milligrams per kilogram)

LT = Less than

ND = Not detected (Reporting Limit = 20 ppm)

Composite results are based on specimen of least mass resulting in highest potential concentration.

Remark:

The specification is quoted from client's requirement.

**DETAILED RESULTS:****Client's Requirement, Bisphenol A and Bisphenol S**Test Method: In-House Method[#]Analytical Method: Liquid Chromatography with Mass Spectrometry or
Liquid Chromatography with Mass Spectrometry Mass Spectrometry

Specimen No.		9	10	11	12	Limit (ppb)
Test Item	CAS No.	Result (ppb)	Result (ppb)	Result (ppb)	Result (ppb)	
Bisphenol A (BPA)	80-05-7	ND	ND	ND	ND	ND
Bisphenol S (BPS)	80-09-1	ND	ND	ND	ND	ND
Conclusion		PASS	PASS	PASS	PASS	

Specimen No.		13	14	15	16	Limit (ppb)
Test Item	CAS No.	Result (ppb)	Result (ppb)	Result (ppb)	Result (ppb)	
Bisphenol A (BPA)	80-05-7	ND	ND	ND	ND	ND
Bisphenol S (BPS)	80-09-1	ND	ND	ND	ND	ND
Conclusion		PASS	PASS	PASS	PASS	

Note:

ppb (Parts per billion) = µg/kg (Micrograms per kilogram)

NA = Not applicable

LT = Less than

ND = Not detected (Reporting limit: BPA = 1000 ppb; BPS = 200 ppb)

**DETAILED RESULTS:****FDA 21 CFR 177.1210, Closures with Sealing Gaskets**Test Method: FDA 21 CFR 177.1210[#]

Specimen No.		16	---	RL (ppm)	Limit (ppm)	
Test Item	Test Condition		Result (ppm)			Result (ppm)
	Temp.	Duration				
Distilled water extractive	Fill boiling	Until Cool to 100°F	24	---	10	50
Conclusion			PASS	---		

Note:

Temp. = Temperature

°F = Degree Fahrenheit

ppm (Parts per million) = mg/kg (Milligrams per kilogram foodstuff)

LT = Less than

ND = Not detected. Result value is less than reporting limit (RL).

Remark:

The specification is quoted from 21 CFR 177.1210 Table 2 Section 2.

**DETAILED RESULTS:****FDA 21 CFR 177.1520, Polypropylene Copolymers**

Test Method: FDA 21 CFR 177.1520

Specimen No.			9	10	RL	Limit
Test Item	Temp.	Duration	Result	Result		
Density (g/cc)	NA	NA	0.907	0.908	NA	0.85-1.00
n-Hexane extractive (%)	50°C	2 hours	0.8	1.0	0.4	5.5
Xylene extractive (%)	Reflux	2 hours or until total dissolved	3.7	2.7	1.0	30
Conclusion			PASS	PASS		

Specimen No.			11	12	RL	Limit
Test Item	Temp.	Duration	Result	Result		
Density (g/cc)	NA	NA	0.909	0.906	NA	0.85-1.00
n-Hexane extractive (%)	50°C	2 hours	0.8	0.8	0.4	5.5
Xylene extractive (%)	Reflux	2 hours or until total dissolved	5.9	2.7	1.0	30
Conclusion			PASS	PASS		

Note:

Temp. = Temperature

°C = Degree Celsius

g/cc = Grams per cubic centimeter

% = Percent by weight

NA = Not applicable

LT = Less than

ND = Not detected. Result value is less than reporting limit (RL).

Remark:

The specification is quoted from 21 CFR 177.1520 (c) 3.1a.

**DETAILED RESULTS:****FDA 21 CFR 177.1520, Polypropylene Copolymers**

Test Method: FDA 21 CFR 177.1520

Specimen No.			13	14	RL	Limit
Test Item	Temp.	Duration	Result	Result		
Density (g/cc)	NA	NA	0.908	0.906	NA	0.85-1.00
n-Hexane extractive (%)	50°C	2 hours	0.5	0.9	0.4	5.5
Xylene extractive (%)	Reflux	2 hours or until total dissolved	3.7	3.3	1.0	30
Conclusion			PASS	PASS		

Specimen No.			15	---	RL	Limit
Test Item	Temp.	Duration	Result	Result		
Density (g/cc)	NA	NA	0.908	---	NA	0.85-1.00
n-Hexane extractive (%)	50°C	2 hours	0.5	---	0.4	5.5
Xylene extractive (%)	Reflux	2 hours or until total dissolved	7.7	---	1.0	30
Conclusion			PASS	---		

Note:

Temp. = Temperature

°C = Degree Celsius

g/cc = Grams per cubic centimeter

% = Percent by weight

NA = Not applicable

LT = Less than

ND = Not detected. Result value is less than reporting limit (RL).

Remark:

The specification is quoted from 21 CFR 177.1520 (c) 3.1a.

**DETAILED RESULTS:****Food and Drug Administration Compliance Program Guidance Manual 7304.019 Chapter 04 Toxic Elements in Food and Foodware - Leachable Lead and Cadmium**Test Method: ASTM C738-94(Reapproved 2011)[#], In-House Method[#]

Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

Specimen No.	18A	18B	18 C	18D	18E	18F	Average (ppm)	Limit (ppm)
Test Item	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)		
Volume of acid used (mL)	650	650	650	650	650	650		
Leachable Cadmium (Cd)	ND	ND	ND	ND	ND	ND	NA	0.5
Leachable Lead (Pb)	ND	ND	ND	ND	ND	ND	NA	2.0
Conclusion	PASS	PASS	PASS	PASS	PASS	PASS		

Note:

mL = Millilitres

ppm (Parts per million) = mg/L (Milligrams per litre)

NA = Not applicable

LT = Less than

ND = Not detected (Reporting Limit: Pb = 0.04 ppm; Cd = 0.02 ppm)

Remark:

The specification is referred from FDA CPG 545.400 & CPG 545.450.

Category		Leachable Cd (mg/L)	Leachable Pb (mg/L)
	Cups and Mugs (Any of 6)	0.5	0.5
	Flatware (Average of 6)	0.5	3.0
	Large Hollowware (Any of 6)	0.25	1.0
X	Small Hollowware (Any of 6)	0.5	2.0
	Pitchers (Any of 6)	0.25	0.5

**DETAILED RESULTS:****ASTM B117-16 Resistance to Corrosion**

Test Method: ASTM B117-16#
Analytical Method: Salt Spray (Fog) Apparatus
Evaluation: In-house rating

Specimen no.:	19	Rating	Conclusion
Condition	Observation		
1% Sodium chloride solution for 24 hours	Rusting was not found on test sample.	6	PASS

Notes:

NR = Not required; NA = Not applicable

Rating (quantity of defect): Rating 6 = Completely free of corrosion
Rating 5 = Very minor, i.e., little or barely corrosion
Rating 4 = Minor, i.e., little but significant corrosion
Rating 3 = Moderate, i.e., scattered corrosion
Rating 2 = Extensive, i.e., considerable corrosion
Rating 1 = Severe, i.e., dense corrosion

Requirement: Rating 6 = PASS; Rating 5 or below = FAIL (See Failure photo)

**DETAILED RESULTS:****Canadian Consumer Products Containing Lead Regulations (SOR/2018-83), Total Lead Content**

Test Method: ASTM F963-17 Clause 8.3.1

Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

Specimen No.	1+2+3	4+5+6	7+8	9+10	11+12+13	Limit (mg/kg)
Test Item	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	
Total Lead (Pb)	32	ND	ND	ND	ND	90
Conclusion	PASS	PASS	PASS	PASS	PASS	

Specimen No.	14+15	16	17	---	---	Limit (mg/kg)
Test Item	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	
Total Lead (Pb)	ND	ND	ND	---	---	90
Conclusion	PASS	PASS	PASS	---	---	

Note:

mg/kg (Milligrams per kilogram) = ppm (Parts per million) = 0.0001 % m/m (Percent by mass)

LT = Less than

ND = Not detected (Reporting Limit = 20 ppm)

Composite results are based on specimen of least mass resulting in highest potential concentration.

**SPECIMEN DESCRIPTION:**

Specimen No.	Specimen Description	Location
1	Translucent lacquer	Outer wall (all styles)
2	Red coating	Outer wall (red style)
3	Orange coating	Outer wall (orange style)
4	Light green coating	Outer wall (lime style)
5	Green coating	Outer wall (green style)
6	Blue coating	Outer wall (blue style)
7	Black coating	Outer wall (black style); base (lime styles)
8	White coating	Base (orange/ red/ blue/ black/ green styles)
9	Red plastic (PP-co)	Lid (red style)
10	Orange plastic (PP-co)	Lid (orange style)
11	Green plastic (PP-co)	Lid (green style)
12	Light green plastic (PP-co)	Lid (lime style)
13	Blue plastic (PP-co)	Lid (blue style)
14	Black plastic (PP-co)	Lid (black style)
15	Dull black plastic (PP-co)	Neck of bottle (all styles)
16	Translucent soft plastic (Silicone)	Gasket (all styles)
17	Silvery metal	Body of bottle (all styles)
18	Dull silvery metal	Interior of bottle (all styles)
19	Complete product	Food contact metal part only (all styles)



SAMPLE PHOTO:



-End Report-