

## TEST REPORT

Test Report #	19H-004014	Date of Report Issue:	July 26, 2019
Date of Sample Received:	June 3, 2019	Pages:	Page 1 of 17

### CLIENT INFORMATION:

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



### SAMPLE INFORMATION:

Description:	22oz Aluminum Bottle	Purchase Order Number:	315878
Assortment:	3 bottles, 6 lids	Agent:	Growth-Sonic
SKU No.:	5302	Country of Origin:	China
Factory No.:	127818	Labeled Age Grade:	-
Country of Distribution:	United States	Recommended Age Grade:	-
Quantity Submitted:	Refer to Page 2	Tested Age Grade:	-
Testing Period:	06/03/2019 – 06/12/2019 07/16/2019 – 07/26/2019		

### OVERALL RESULT:

 **PASS**

Refer to page 3 for test result summary and appropriate notes.

QIMA Testing (HK) Limited



Loska Yeung Lok Ka  
Assistant Manager, Chemical Laboratory

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YOUR EYES IN THE SUPPLY CHAIN

Test Report #: 19H-004014

Page 2 of 17

**QUANTITY SUBMITTED DETAILED:**

Style description	Qty.
22oz Aluminum Bottle - Black	5 pcs
22oz Aluminum Bottle - White	5 pcs
Dry paints	2 lots
22oz Aluminum Bottle - Silver	5 pcs
22oz Aluminum Bottle - Red Lid	8 pcs
22oz Aluminum Bottle - Orange Lid	8 pcs
22oz Aluminum Bottle - Lime Lid	8 pcs
22oz Aluminum Bottle - Blue Lid	8 pcs
22oz Aluminum Bottle - Purple	6 pcs
22oz Aluminum Bottle - Grey	5 pcs
Parts	1 lot

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YOUR EYES IN THE SUPPLY CHAIN

Test Report #: 19H-004014

Page 3 of 17

**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 <sup>#</sup>
PASS	FDA 21 CFR 177.1210, Closures with Sealing Gaskets <sup>#</sup>
PASS	FDA 21 CFR 177.1520, Polypropylene Homopolymers
PASS	FDA 21 CFR 177.1640, Polystyrene <sup>#</sup>
PASS	Food and Drug Administration Compliance Program Guidance Manual 7304.019 Chapter 04 Toxic Elements in Food and Foodware - Leachable Lead and Cadmium <sup>#</sup>
PASS	ASTM B117-16 Resistance to Corrosion <sup>#</sup>
PASS	Canadian Consumer Products Containing Lead Regulations (SOR/2018-83), Total Lead Content

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YOUR EYES IN THE SUPPLY CHAIN

Test Report #: 19H-004014

Page 4 of 17

**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	7	---	---	Total Limit (ppm)
Test Item	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	
Total Lead (Pb)	ND	ND	ND	---	---	<b>90</b>
<b>Conclusion</b>	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.

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YOUR EYES IN THE SUPPLY CHAIN

Test Report #: 19H-004014

Page 5 of 17

**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	7	---	---	Total Limit (ppm)
Test Item	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	
Total Lead (Pb)	ND	ND	ND	---	---	<b>90</b>
<b>Conclusion</b>	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.

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YOUR EYES IN THE SUPPLY CHAIN

Test Report #: 19H-004014

Page 6 of 17

**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.	3+4	5	8	9+10+11	12+13+14	Total Limit (ppm)
Test Item	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	
Total Lead (Pb)	ND	31	ND	ND	ND	<b>100</b>
<b>Conclusion</b>	PASS	PASS	PASS	PASS	PASS	

Specimen No.	15+16+17	18+19	20+21	---	---	Total Limit (ppm)
Test Item	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	
Total Lead (Pb)	ND	ND	ND	---	---	<b>100</b>
<b>Conclusion</b>	PASS	PASS	PASS	---	---	

**Note:**

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

LT = Less than

ND = Not detected (Reporting Limit = 20 ppm)

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YOUR EYES IN THE SUPPLY CHAIN

Test Report #: 19H-004014

Page 7 of 17

**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.	3+4	5	8	9+10+11	12+13+14	Total Limit (ppm)
Test Item	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	
Total Lead (Pb)	ND	31	ND	ND	ND	<b>100</b>
<b>Conclusion</b>	PASS	PASS	PASS	PASS	PASS	

Specimen No.	15+16+17	18+19	20+21	---	---	Total Limit (ppm)
Test Item	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	
Total Lead (Pb)	ND	ND	ND	---	---	<b>100</b>
<b>Conclusion</b>	PASS	PASS	PASS	---	---	

**Note:**

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

LT = Less than

ND = Not detected (Reporting Limit = 20 ppm)

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YOUR EYES IN THE SUPPLY CHAIN

Test Report #: 19H-004014

Page 8 of 17

**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.		3	4	8	15	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
<b>Conclusion</b>		PASS	PASS	PASS	PASS	

Specimen No.		16	17	18	19	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
<b>Conclusion</b>		PASS	PASS	PASS	PASS	

Specimen No.		20	21	---	---	Limit (ppb)
Test Item	CAS No.	Result (ppb)	Result (ppb)	Result (ppb)	Result (ppb)	
Bisphenol A (BPA)	80-05-7	ND	ND	---	---	ND
Bisphenol S (BPS)	80-09-1	ND	ND	---	---	ND
<b>Conclusion</b>		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)

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YOUR EYES IN THE SUPPLY CHAIN

Test Report #: 19H-004014

Page 9 of 17

**DETAILED RESULTS:****FDA 21 CFR 177.1210, Closures with Sealing Gaskets**Test Method: FDA 21 CFR 177.1210<sup>#</sup>

Specimen No.			8	---	RL (ppm)	Limit (ppm)
Test Item	Test Condition		Result (ppm)	Result (ppm)		
	Temp.	Duration				
Distilled water extractive	Fill boiling	Until Cool to 100°F	27	---	10	50
<b>Conclusion</b>			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.

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YOUR EYES IN THE SUPPLY CHAIN

Test Report #: 19H-004014

Page 10 of 17

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

Test Method: FDA 21 CFR 177.1520

Specimen No.			3	4	RL	Limit
Test Item	Temp.	Duration	Result	Result		
Density (g/cc)	NA	NA	0.897	0.896	NA	0.880 – 0.913
Melting point (°C)	NA	NA	170.7	171.1	NA	150 – 180
n-Hexane extractive (%)	Reflux	2 hours	0.9	1.2	0.1	6.4
Xylene extractive (%)	120°C	2 hours or until total dissolved	1.8	1.7	0.5	9.8
<b>Conclusion</b>			PASS	PASS		

Specimen No.			21	---	RL	Limit
Test Item	Temp.	Duration	Result	Result		
Density (g/cc)	NA	NA	0.896	---	NA	0.880 – 0.913
Melting point (°C)	NA	NA	168.9	---	NA	150 – 180
n-Hexane extractive (%)	Reflux	2 hours	2.0	---	0.1	6.4
Xylene extractive (%)	120°C	2 hours or until total dissolved	1.8	---	0.5	9.8
<b>Conclusion</b>			PASS	---		

**Note:**

Temp. = Temperature

°C = Degree Celsius

g/cc = Grams per cubic centimeter

% w/w = 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) 1.1.

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YOUR EYES IN THE SUPPLY CHAIN

Test Report #: 19H-004014

Page 11 of 17

**DETAILED RESULTS:****FDA 21 CFR 177.1640, Polystyrene**Test Method: FDA 21 CFR 177.1640<sup>#</sup>

Analytical Method: Gas Chromatography with Mass Spectrometry

Contact with Fatty Foods

Specimen No.		15	16	17	18	Limit (% m/m)
Test Item	CAS No.	Result (% m/m)	Result (% m/m)	Result (% m/m)	Result (% m/m)	
Styrene	100-42-5	ND	0.11	0.13	0.06	<b>0.5</b>
<b>Conclusion</b>		PASS	PASS	PASS	PASS	

Specimen No.		19	20	---	---	Limit (% m/m)
Test Item	CAS No.	Result (% m/m)	Result (% m/m)	Result (% m/m)	Result (% m/m)	
Styrene	100-42-5	0.12	ND	---	---	<b>0.5</b>
<b>Conclusion</b>		PASS	PASS	---	---	

**Note:**

% m/m = Percent by mass

LT = Less than

ND = Not detected (Reporting Limit = 0.05 % m/m)

**Remark:**

The specification is quoted from 21 CFR 177.1640 (c) (1).

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YOUR EYES IN THE SUPPLY CHAIN

Test Report #: 19H-004014

Page 12 of 17

**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)<sup>#</sup>, In-House Method<sup>#</sup>  
 Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

Specimen No.	6A	6B	6C	6D	6E	6F	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	<b>0.5</b>
Leachable Lead (Pb)	ND	ND	ND	ND	ND	ND	NA	<b>2.0</b>
<b>Conclusion</b>	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 &amp; CPG 545.450.

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

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YOUR EYES IN THE SUPPLY CHAIN

Test Report #: 19H-004014

Page 13 of 17

**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.:	6	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)

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YOUR EYES IN THE SUPPLY CHAIN

Test Report #: 19H-004014

Page 14 of 17

**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	7	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	31	ND	<b>90</b>
<b>Conclusion</b>	PASS	PASS	PASS	PASS	PASS	

Specimen No.	8	15+16+17	18+19	20+21	---	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	ND	---	<b>90</b>
<b>Conclusion</b>	PASS	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 mg/kg)

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

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YOUR EYES IN THE SUPPLY CHAIN

Test Report #: 19H-004014

Page 15 of 17

**SPECIMEN DESCRIPTION:**

Specimen No.	Specimen Description	Location
1	Dull black/ dull white inseparable coating	On outer wall/ base (black style)
2	White/ black inseparable coating	On outer wall/ base (white style)
3	Black plastic (PP-homo)	Neck (black style)
4	White plastic (PP-homo)	Neck (white style)
5	Silvery metal	Bottle (all styles except lid styles)
6	Silvery metal	Interior of bottle (all styles except lid styles)
7	Silvery/ black inseparable coating	On outer wall/ base (silver style)
8	Translucent soft plastic (silicone)	Gasket (all lid styles)
9	Red soft plastic	Strap (red lid style)
10	Orange soft plastic	Strap (orange lid style)
11	Green soft plastic	Strap (lime lid style)
12	Blue soft plastic	Strap (blue lid style)
13	Purple soft plastic	Strap (purple lid style)
14	Grey soft plastic	Strap (grey lid style)
15	Transparent red plastic (PS-homo)	Lid (red lid style)
16	Transparent orange plastic (PS-homo)	Lid (orange lid style)
17	Transparent green plastic (PS-homo)	Lid (lime lid style)
18	Transparent blue plastic (PS-homo)	Lid (blue lid style)
19	Transparent purple plastic (PS-homo)	Lid (purple lid style)
20	Transparent grey plastic (PS-homo)	Lid (grey lid style)
21	Grey plastic (PP-homo)	Neck (silver style)

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**SAMPLE PHOTO:**



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YOUR EYES IN THE SUPPLY CHAIN

Test Report #: 19H-004014

Page 17 of 17

**SAMPLE PHOTO:**



-End Report-

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