



## **TEST REPORT**

Test Report # 19H-008704 Date of Report Issue: December 5, 2019

Date of Sample Received: November 26, 2019 Pages: Page 1 of 16

**CLIENT INFORMATION:** 

Company: Hit Promotional Products

Recipient: Nathan Cotter

Recipient Email: ncotter@hitpromo.net

**SAMPLE INFORMATION:** 

Description: 25 Oz. Aluminum Helena Bottle

Assortment: 3 bottles / 6 lids Purchase Order Number: 342394

SKU No.: 5967 Agent: Growth-Sonic

Factory No.: 127959 Country of Origin: China

Country of Distribution: United States Labeled Age Grade: -

Quantity Submitted: Refer to Page 2 Recommended Age Grade: -

Testing Period: 11/26/2019 – 12/05/2019 Tested Age Grade: -

**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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## **QUANTITY SUBMITTED DETAILED:**

Style description	Qty.
25 Oz. Aluminum Helena Bottle - Black	5 pcs
25 Oz. Aluminum Helena Bottle - White	5 pcs
25 Oz. Aluminum Helena Bottle - Silver	5 pcs
Lids - Black	7 pcs
Lids - Blue	6 pcs
Lids - Lime	4 pcs
Lids - Orange	5 pcs
Lids - Red	5 pcs
Lids - No Color	4 pcs



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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#φ
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



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## **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					Total
Test Item	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Limit (ppm)
Total Lead (Pb)	ND					90
Conclusion	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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## **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					Total
Test Item	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Limit (ppm)
Total Lead (Pb)	ND					90
Conclusion	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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## **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) Inductively Coupled Plasma-Optical Emission Spectrometry Analytical Method:

Specimen No.	3	4+5+6	7+8	9		Total
Test Item	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Limit (ppm)
Total Lead (Pb)	ND	ND	ND	ND		100
Conclusion	PASS	PASS	PASS	PASS		

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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#### **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+6	7+8	9		Total
Test Item	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Limit (ppm)
Total Lead (Pb)	ND	ND	ND	ND		100
Conclusion	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:

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#### **DETAILED RESULTS:**

## Client's Requirement, Bisphenol A and Bisphenol S

Test Method: In-House Method<sup>#</sup>

Analytical Method: Liquid Chromatography with Mass Spectrometry or

Liquid Chromatography with Mass Spectrometry Mass Spectrometry

Specimen No.		3	4	5	6	
Test Item	CAS No.	Result	Result	Result	Result	Limit
		(ppb)	(ppb)	(ppb)	(ppb)	(ppb)
Bisphenol A (BPA)	80-05-7	ND	ND	ND	ND	ND
Bisphenol S (BPS)	80-09-1	ND	ND	ND	ND	ND
Conclusi	on	PASS	PASS	PASS	PASS	

Specimen No.		7	8			
Test Item	CAS No.	Result (ppb)	Result (ppb)	Result (ppb)	Result (ppb)	Limit (ppb)
Bisphenol A (BPA)	80-05-7	ND	ND			ND
Bisphenol S (BPS)	80-09-1	ND	ND			ND
Conclus	ion	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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## **DETAILED RESULTS:**

## FDA 21 CFR 177.1210, Closures with Sealing Gaskets

Test Method: FDA 21 CFR 177.1210#

Specime	3					
Test Item	Test Co	ndition	Result	Result	RL	Limit
restitem	Temp.	Duration	(ppm)	(ppm)	(ppm)	(ppm)
Distilled water extractive	Fill boiling Until Cool to 100°F		ND		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.

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## **DETAILED RESULTS:**

## FDA 21 CFR 177.1520, Polypropylene Copolymers

Test Method: FDA 21 CFR 177.1520

Specimen No.			4	5		
Test Item	Temp.	Duration	Result	Result	RL	Limit
Density (g/cc)	NA	NA	0.907	0.901	NA	0.85-1.00
n-Hexane extractive (%)	50°C	2 hours	0.6	0.5	0.4	5.5
Xylene extractive (%)	Reflux	2 hours or until total dissolved	1.2	1.7	1.0	30
		Conclusion	PASS	PASS		

Specimen No.			6	7		
Test Item	Temp.	Duration	Result	Result	RL	Limit
Density (g/cc)	NA	NA	0.901	0.896	NA	0.85-1.00
n-Hexane extractive (%)	50°C	2 hours	0.7	1.8	0.4	5.5
Xylene extractive (%)	Reflux	2 hours or until total dissolved	2.5	3.7	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.

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#### **DETAILED RESULTS:**

## FDA 21 CFR 177.1520, Polypropylene Copolymers

Test Method: FDA 21 CFR 177.1520

Specimen No.			8			
Test Item	Temp.	Duration	Result	Result	RL	Limit
Density (g/cc)	NA	NA	0.898		NA	0.85-1.00
n-Hexane extractive (%)	50°C	2 hours	1.4		0.4	5.5
Xylene extractive (%)	Reflux	2 hours or until total dissolved	3.3		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.

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## **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 2016)\*, In-House Method\*
Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

Specimen No.	10A	10B	10C	10D	10E	10F		
Test Item	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Average (ppm)	Limit (ppm)
Volume of acid used (mL)	720	720	720	720	720	720		
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
Х	Small Hollowware	(Any of 6)	0.5	2.0
	Pitchers	(Any of 6)	0.25	0.5

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#### **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.:	10	Dating	Conclusion	
Condition	Observation	Rating		
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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#### **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	
Test Item	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Limit (mg/kg)
Total Lead (Pb)	ND	ND	ND	ND	ND	90
Conclusion	PASS	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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## **SPECIMEN DESCRIPTION:**

Specimen No.	Specimen Description	Location
1	Black/ white inseparable coating	On outer body (black/ white styles)
2	Translucent lacquer	On outer body (silver style)
3	Translucent soft plastic (silicone)	Gasket of lid (all lids styles); gasket of flip lid (all lids styles except lids – no color style)
4	Black plastic (PP-co)	Flip lid (lids – black style); lid (all lids styles); neck (all bottle styles)
5	Blue plastic (PP-co)	Flip lid (lids – blue style)
6	Green plastic (PP-co)	Flip lid (lids – lime style)
7	Orange plastic (PP-co)	Flip lid (lids – orange style)
8	Red plastic (PP-co)	Flip lid (lids – red style)
9	Silvery metal	Body (all bottle styles)
10	Silvery metal	Interior of bottle (all bottle styles)

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## **SAMPLE PHOTO:**





-End Report-

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