

# **TEST REPORT**



Test Report #	19H-008539	Date of Report Issue:	December 27, 2019
Date of Sample Received:	November 20, 2019	Pages:	Page 1 of 15
CLIENT INFORMATION:			
Company:	Hit Promotional Produc	ts	000
Recipient:	Nathan Cotter		
Recipient Email:	ncotter@hitpromo.net		
			19H-008539
SAMPLE INFORMATION:			1911-006339
Description:	28 Oz. Sport Grip Stainl	ess Steel Bottle	
Assortment:	3 colors	Purchase Order Num	ber: 341408
SKU No.:	5877	Agent:	Growth-Sonic
Factory No.:	127770	Country of Origin:	China
Country of Distribution:	United States	Labeled Age Grade:	-
Quantity Submitted:	5 pcs per style + 1 lot Pa	arts Recommended Age (	Grade: -
Testing Period:	11/21/2019 – 12/03/20 12/04/2019 – 12/10/20 12/17/2019 – 12/27/20	)19	-

# **OVERALL RESULT:**

 $\mathcal{P}$  PASS with information

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

QIMA Testing (HK) Limited



Loska Yeung Lok Ka Assistant Manager, Chemical Laboratory

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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
INFORMATION ONLY	FDA GRAS Specifications, Total Chromium in Stainless Steel Food Containers <sup>#</sup>
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 180.22 and 181.32, Acrylonitrile/Styrene Copolymers
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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## **DETAILED RESULTS:**

## CPSIA Section 101 & 16 CFR 1303, Total Lead in Paints and Surface Coatings

Test Method:CPSC-CH-E-1003-09.1Analytical Method:Inductively Coupled Plasma-Optical Emission Spectrometry

Specimen No.	1+2+3					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-1003-09.1Analytical Method:Inductively Coupled Plasma-Optical Emission Spectrometry

Specimen No.	1+2+3					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)Analytical Method:Inductively Coupled Plasma-Optical Emission Spectrometry

Specimen No.	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.

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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.	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:

The specification is quoted from client's requirement.

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#### **DETAILED RESULTS:**

# FDA GRAS Specifications, Total Chromium in Stainless Steel Food Containers

Test Method:In-House Method#Analytical Method:Inductively Coupled Plasma-Optical Emission Spectrometry

Specimen No.	9				
Test Item	Result (% m/m)	Result (% m/m)	Result (% m/m)	Result (% m/m)	Result (% m/m)
Total Chromium (Cr)	13.5				
Conclusion	Information Only				

Note: % m/m = Percent by mass GT = Greater than

*Remark:* The limit is quoted from ANSI/NSF 51-1997 Section 7.1.2.

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

Note:

ppb (Parts per billion) =  $\mu$ g/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<sup>#</sup>

Specimen No.			7			
Test Item	Test Condition		Result	Result	RL	Limit
Test item	Temp.	Duration	(ppm)	(ppm)	(ppm)	(ppm)
Distilled water extractive	Fill boiling	Until Cool to 100 <sup>0</sup> 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 Homopolymers

Test Method: FDA 21 CFR 177.1520

Specimen No.			4			
Test Item	Temp.	Duration	Result	Result	RL	Limit
Density (g/cc)	NA	NA	0.911		NA	0.880 - 0.913
Melting point (°C)	NA	NA	168.7		NA	150 - 180
n-Hexane extractive (%)	Reflux	2 hours	2.1		0.1	6.4
Xylene extractive (%)	120°C	2 hours or until total dissolved	3.3		0.5	9.8
		Conclusion	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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#### **DETAILED RESULTS:**

## FDA 21 CFR 180.22 and 181.32, Acrylonitrile/Styrene Copolymers

Test Method:	FDA 21 CFR 180.22 and 181.32
Analytical Method:	Headspace-Gas Chromatography with Mass Spectrometry

#### Acrylonitrile Monomers:

Specimen No	5				
Tost Simulant	Test Condition		Decult	RL	Limit
Test Simulant	Temp.	Duration	Result	ĸL	Limit
Distilled water extractive (mg/in <sup>2</sup> )	120°F	2 hours	ND	0.001	0.003
3% Acetic acid extractive (mg/in <sup>2</sup> )	120°F	2 hours	ND	0.001	0.003
Conclusion			PASS		

Note:

Temp. = Temperature °F = Degree Fahrenheit mg/in<sup>2</sup> = Milligrams per square inch LT = Less than ND = Not detected. Result value is less than reporting limit (RL).

Remark:

The specification is quoted from 21 CFR 181.32 (b) (3).

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#### **DETAILED RESULTS:**

## **ASTM B117-16 Resistance to Corrosion**

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

Specimen no.:	9	Pating Canalusia	
Condition	Observation	Rating	Conclusion
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	5+6	7	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		90
Conclusion	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	Red coating	On outer body (red style)
2	Blue coating	On outer body (blue style)
3	Grey coating	On outer body (silver style)
4	Black plastic (PP-homo)	Lid (all styles)
5	Grey plastic (AS)	Spout (all styles)
6	Black plastic	Lid/ handle/ ring of body (all styles)
7	Translucent soft plastic (Silicon)	Gasket (all styles)
8	Black soft plastic	Sleeve (all styles)
9	Silvery metal (201 S/S)	Body (all styles)

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#### SAMPLE PHOTO:



-End Report-

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