

## TEST REPORT

Test Report # 19H-008010 Date of Report Issue: November 15, 2019  
Date of Sample Received: October 29, 2019 Pages: Page 1 of 19

### CLIENT INFORMATION:

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



### SAMPLE INFORMATION:

Description:	25oz. Aluminum Bike Bottle, 28Oz. Aluminum Sports Bottle		
Assortment:	7 colors / 4 colors	Purchase Order Number:	334566 / 334567
SKU No.:	5705 / 5703	Agent:	Headwind Industrial
Factory No.:	129882	Country of Origin:	China
Country of Distribution:	United States	Labeled Age Grade:	-
Quantity Submitted:	6 pcs per style	Recommended Age Grade:	-
Testing Period:	11/01/2019 – 11/15/2019	Tested Age Grade:	-

### OVERALL RESULT:

 **PASS**

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

QIMA Testing (HK) Limited



Loska Yeung Lok Ka  
Assistant Manager, Chemical Laboratory

QIMA Testing (HK) Limited ♦ 3/F Liven House, No. 61 – 63 King Yip Street, Kwun Tong, Kowloon, HKSAR, China ♦ Tel: (852)3185 8000.  
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. ANAB is recognized by ILAC, APAC and IAAC as a signatory of multilateral recognition arrangements that facilitate acceptance of test internationally.  
Test(s) marked with 'φ' was subcontracted to external laboratory.

The test result(s) and conclusion(s) in this report relate only to the sample(s) as received and method /regulation section(s) tested as described herein.  
If it is not further specified in the report, the decision rule for stating conformity is based on the [QIMA decision rule](#).  
This test report may not be reproduced in whole or in part, without written approval of QIMA Testing (HK) Limited.

**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>#φ</sup>
PASS	FDA 21 CFR 177.1210, Closures with Sealing Gaskets <sup>#</sup>
PASS	FDA 21 CFR 177.1520, Polyethylene Homopolymers
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

QIMA Testing (HK) Limited ♦ 3/F Liven House, No. 61 – 63 King Yip Street, Kwun Tong, Kowloon, HKSAR, China ♦ Tel: (852)3185 8000.

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. ANAB is recognized by ILAC, APAC and IAAC as a signatory of multilateral recognition arrangements that facilitate acceptance of test internationally.

Test(s) marked with 'φ' was subcontracted to external laboratory.

The test result(s) and conclusion(s) in this report relate only to the sample(s) as received and method /regulation section(s) tested as described herein.

If it is not further specified in the report, the decision rule for stating conformity is based on the [QIMA decision rule](#).

This test report may not be reproduced in whole or in part, without written approval of QIMA Testing (HK) Limited.

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

Data Consolidation Reference

Specimen No.	Transferred from		Date of Issue
	Report No.	Specimen No.	
5	19H-007531	3	October 24, 2019
6+7	19H-007531	1+2	October 24, 2019

QIMA Testing (HK) Limited ♦ 3/F Liven House, No. 61 – 63 King Yip Street, Kwun Tong, Kowloon, HKSAR, China ♦ Tel: (852)3185 8000.

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.

ANAB is recognized by ILAC, APAC and IAAC as a signatory of multilateral recognition arrangements that facilitate acceptance of test internationally.

Test(s) marked with 'φ' was subcontracted to external laboratory.

The test result(s) and conclusion(s) in this report relate only to the sample(s) as received and method /regulation section(s) tested as described herein.

If it is not further specified in the report, the decision rule for stating conformity is based on the [QIMA decision rule](#).

This test report may not be reproduced in whole or in part, without written approval of QIMA Testing (HK) Limited.

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

Data Consolidation Reference

Specimen No.	Transferred from		Date of Issue
	Report No.	Specimen No.	
5	19H-007531	3	October 24, 2019
6+7	19H-007531	1+2	October 24, 2019

QIMA Testing (HK) Limited ♦ 3/F Liven House, No. 61 – 63 King Yip Street, Kwun Tong, Kowloon, HKSAR, China ♦ Tel: (852)3185 8000.

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.

ANAB is recognized by ILAC, APAC and IAAC as a signatory of multilateral recognition arrangements that facilitate acceptance of test internationally.

Test(s) marked with 'φ' was subcontracted to external laboratory.

The test result(s) and conclusion(s) in this report relate only to the sample(s) as received and method /regulation section(s) tested as described herein.

If it is not further specified in the report, the decision rule for stating conformity is based on the [QIMA decision rule](#).

This test report may not be reproduced in whole or in part, without written approval of QIMA Testing (HK) Limited.

**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.	8	9	10+11+12	13+14	15	Total Limit (ppm)
Test Item	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	
Total Lead (Pb)	ND	ND	ND	ND	ND	<b>100</b>
<b>Conclusion</b>	PASS	PASS	PASS	PASS	PASS	

Specimen No.	16	---	---	---	---	Total Limit (ppm)
Test Item	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	
Total Lead (Pb)	ND	---	---	---	---	<b>100</b>
<b>Conclusion</b>	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.

Data Consolidation Reference

Specimen No.	Transferred from		Date of Issue
	Report No.	Specimen No.	
8	19H-007531	4	October 24, 2019
9	19H-007531	5	October 24, 2019
10+11+12	19H-007531	6+7+8	October 24, 2019
13+14	19H-007531	9+10	October 24, 2019
15	19H-007531	11	October 24, 2019
16	19H-007531	12	October 24, 2019

QIMA Testing (HK) Limited ♦ 3/F Liven House, No. 61 – 63 King Yip Street, Kwun Tong, Kowloon, HKSAR, China ♦ Tel: (852)3185 8000.

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.

ANAB is recognized by ILAC, APAC and IAAC as a signatory of multilateral recognition arrangements that facilitate acceptance of test internationally.

Test(s) marked with 'φ' was subcontracted to external laboratory.

The test result(s) and conclusion(s) in this report relate only to the sample(s) as received and method /regulation section(s) tested as described herein.

If it is not further specified in the report, the decision rule for stating conformity is based on the [QIMA decision rule](#).

This test report may not be reproduced in whole or in part, without written approval of QIMA Testing (HK) Limited.

**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.	8	9	10+11+12	13+14	15	Total Limit (ppm)
Test Item	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	
Total Lead (Pb)	ND	ND	ND	ND	ND	100
<b>Conclusion</b>	PASS	PASS	PASS	PASS	PASS	

Specimen No.	16	---	---	---	---	Total Limit (ppm)
Test Item	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	
Total Lead (Pb)	ND	---	---	---	---	100
<b>Conclusion</b>	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.

Data Consolidation Reference

Specimen No.	Transferred from		Date of Issue
	Report No.	Specimen No.	
8	19H-007531	4	October 24, 2019
9	19H-007531	5	October 24, 2019
10+11+12	19H-007531	6+7+8	October 24, 2019
13+14	19H-007531	9+10	October 24, 2019
15	19H-007531	11	October 24, 2019
16	19H-007531	12	October 24, 2019

QIMA Testing (HK) Limited ♦ 3/F Liven House, No. 61 – 63 King Yip Street, Kwun Tong, Kowloon, HKSAR, China ♦ Tel: (852)3185 8000.

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.

ANAB is recognized by ILAC, APAC and IAAC as a signatory of multilateral recognition arrangements that facilitate acceptance of test internationally.

Test(s) marked with 'φ' was subcontracted to external laboratory.

The test result(s) and conclusion(s) in this report relate only to the sample(s) as received and method /regulation section(s) tested as described herein.

If it is not further specified in the report, the decision rule for stating conformity is based on the [QIMA decision rule](#).

This test report may not be reproduced in whole or in part, without written approval of QIMA Testing (HK) Limited.

**DETAILED RESULTS:**

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

Test Method: In-House Method<sup>#φ</sup>  
 Analytical Method: Liquid Chromatography with Mass Spectrometry or  
 Liquid Chromatography with Mass Spectrometry Mass Spectrometry

Specimen No.		8	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
<b>Conclusion</b>		PASS	PASS	PASS	PASS	

Specimen No.		14	19	---	---	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)

**Data Consolidation Reference**

Specimen No.	Transferred from		Date of Issue
	Report No.	Specimen No.	
8	19H-007531	4	October 24, 2019
10	19H-007531	6	October 24, 2019
11	19H-007531	7	October 24, 2019
12	19H-007531	8	October 24, 2019
14	19H-007531	10	October 24, 2019
19	19H-007531	15	October 24, 2019

QIMA Testing (HK) Limited ♦ 3/F Liven House, No. 61 – 63 King Yip Street, Kwun Tong, Kowloon, HKSAR, China ♦ Tel: (852)3185 8000.  
 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. ANAB is recognized by ILAC, APAC and IAAC as a signatory of multilateral recognition arrangements that facilitate acceptance of test internationally.  
 Test(s) marked with 'φ' was subcontracted to external laboratory.  
 The test result(s) and conclusion(s) in this report relate only to the sample(s) as received and method /regulation section(s) tested as described herein.  
 If it is not further specified in the report, the decision rule for stating conformity is based on the [QIMA decision rule](#).  
 This test report may not be reproduced in whole or in part, without written approval of QIMA Testing (HK) Limited.

**DETAILED RESULTS:**

**FDA 21 CFR 177.1210, Closures with Sealing Gaskets**

Test Method: FDA 21 CFR 177.1210#

Specimen No.			18	---	RL (ppm)	Limit (ppm)
Test Item	Test Condition		Result (ppm)	Result (ppm)		
	Temp.	Duration				
Distilled water extractive	Fill boiling	Until Cool to 100°F	ND	---	10	50
<b>Conclusion</b>			PASS	---		

Specimen No.			17	---	RL (ppm)	Limit (ppm)
Test Item	Test Condition		Result (ppm)	Result (ppm)		
	Temp.	Duration				
Distilled water extractive	120°F	24 hours	11	---	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.

**Data Consolidation Reference**

Specimen No.	Transferred from		Date of Issue
	Report No.	Specimen No.	
17	19H-007531	13	October 24, 2019
18	19H-007531	14	October 24, 2019

QIMA Testing (HK) Limited ♦ 3/F Liven House, No. 61 – 63 King Yip Street, Kwun Tong, Kowloon, HKSAR, China ♦ Tel: (852)3185 8000.

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.

ANAB is recognized by ILAC, APAC and IAAC as a signatory of multilateral recognition arrangements that facilitate acceptance of test internationally.

Test(s) marked with 'φ' was subcontracted to external laboratory.

The test result(s) and conclusion(s) in this report relate only to the sample(s) as received and method /regulation section(s) tested as described herein.

If it is not further specified in the report, the decision rule for stating conformity is based on the [QIMA decision rule](#).

This test report may not be reproduced in whole or in part, without written approval of QIMA Testing (HK) Limited.



**DETAILED RESULTS:**

**FDA 21 CFR 177.1520, Polyethylene Homopolymers**

Test Method: FDA 21 CFR 177.1520

Specimen No.			12	14		
Test Item	Temp.	Duration	Result	Result	RL	Limit
Density (g/cc)	NA	NA	0.918	0.943	NA	0.85-1.00
n-Hexane extractive (%)	50°C	2 hours	0.7	ND	0.4	5.5
Xylene extractive (%)	Reflux	2 hours or until total dissolved	3.8	ND	1.0	11.3
<b>Conclusion</b>			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) 2.1.

Data Consolidation Reference

Specimen No.	Transferred from		Date of Issue
	Report No.	Specimen No.	
12	19H-007531	8	October 24, 2019
14	19H-007531	10	October 24, 2019

QIMA Testing (HK) Limited ♦ 3/F Liven House, No. 61 – 63 King Yip Street, Kwun Tong, Kowloon, HKSAR, China ♦ Tel: (852)3185 8000.

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.

ANAB is recognized by ILAC, APAC and IAAC as a signatory of multilateral recognition arrangements that facilitate acceptance of test internationally.

Test(s) marked with 'φ' was subcontracted to external laboratory.

The test result(s) and conclusion(s) in this report relate only to the sample(s) as received and method /regulation section(s) tested as described herein.

If it is not further specified in the report, the decision rule for stating conformity is based on the [QIMA decision rule](#).

This test report may not be reproduced in whole or in part, without written approval of QIMA Testing (HK) Limited.

**DETAILED RESULTS:**

**FDA 21 CFR 177.1520, Polypropylene Homopolymers**

Test Method: FDA 21 CFR 177.1520

Specimen No.			11	19		
Test Item	Temp.	Duration	Result	Result	RL	Limit
Density (g/cc)	NA	NA	0.899	0.903	NA	<b>0.880 – 0.913</b>
Melting point (°C)	NA	NA	170.2	171.1	NA	<b>150 – 180</b>
n-Hexane extractive (%)	Reflux	2 hours	1.3	1.2	<b>0.1</b>	<b>6.4</b>
Xylene extractive (%)	120°C	2 hours or until total dissolved	2.1	1.6	<b>0.5</b>	<b>9.8</b>
<b>Conclusion</b>			PASS	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.

**Data Consolidation Reference**

Specimen No.	Transferred from		Date of Issue
	Report No.	Specimen No.	
11	19H-007531	7	October 24, 2019
19	19H-007531	15	October 24, 2019

QIMA Testing (HK) Limited ♦ 3/F Liven House, No. 61 – 63 King Yip Street, Kwun Tong, Kowloon, HKSAR, China ♦ Tel: (852)3185 8000.

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.

ANAB is recognized by ILAC, APAC and IAAC as a signatory of multilateral recognition arrangements that facilitate acceptance of test internationally.

Test(s) marked with 'φ' was subcontracted to external laboratory.

The test result(s) and conclusion(s) in this report relate only to the sample(s) as received and method /regulation section(s) tested as described herein.

If it is not further specified in the report, the decision rule for stating conformity is based on the [QIMA decision rule](#).

This test report may not be reproduced in whole or in part, without written approval of QIMA Testing (HK) Limited.

**DETAILED RESULTS:**

**FDA 21 CFR 177.1640, Polystyrene**

Test Method: FDA 21 CFR 177.1640#  
 Analytical Method: Gas Chromatography with Mass Spectrometry

Contact with Fatty Foods

Specimen No.	10	---	---	---	Limit (% m/m)
Test Item CAS No.	Result (% m/m)	Result (% m/m)	Result (% m/m)	Result (% m/m)	
Styrene 100-42-5	ND	---	---	---	<b>0.5</b>
<b>Conclusion</b>	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).

Data Consolidation Reference

Specimen No.	Transferred from		Date of Issue
	Report No.	Specimen No.	
10	19H-007531	6	October 24, 2019

QIMA Testing (HK) Limited ♦ 3/F Liven House, No. 61 – 63 King Yip Street, Kwun Tong, Kowloon, HKSAR, China ♦ Tel: (852)3185 8000.  
 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. ANAB is recognized by ILAC, APAC and IAAC as a signatory of multilateral recognition arrangements that facilitate acceptance of test internationally.

*Test(s) marked with 'φ' was subcontracted to external laboratory.*

The test result(s) and conclusion(s) in this report relate only to the sample(s) as received and method /regulation section(s) tested as described herein.

If it is not further specified in the report, the decision rule for stating conformity is based on the [QIMA decision rule](#).

This test report may not be reproduced in whole or in part, without written approval of QIMA Testing (HK) Limited.

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

Specimen No.	20A	20B	20C	20D	20E	20F	Average (ppm)	Limit (ppm)
Test Item	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)		
Volume of acid used (mL)	720	720	720	720	720	720		
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 & 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>

QIMA Testing (HK) Limited ♦ 3/F Liven House, No. 61 – 63 King Yip Street, Kwun Tong, Kowloon, HKSAR, China ♦ Tel: (852)3185 8000.  
 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. ANAB is recognized by ILAC, APAC and IAAC as a signatory of multilateral recognition arrangements that facilitate acceptance of test internationally.  
 Test(s) marked with 'φ' was subcontracted to external laboratory.

The test result(s) and conclusion(s) in this report relate only to the sample(s) as received and method /regulation section(s) tested as described herein.  
 If it is not further specified in the report, the decision rule for stating conformity is based on the [QIMA decision rule](#).  
 This test report may not be reproduced in whole or in part, without written approval of QIMA Testing (HK) Limited.

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

Specimen No.	21A	21B	21C	21D	21E	21F	Average (ppm)	Limit (ppm)
Test Item	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)		
Volume of acid used (mL)	870	870	870	870	870	870		
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 & 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>

QIMA Testing (HK) Limited ♦ 3/F Liven House, No. 61 – 63 King Yip Street, Kwun Tong, Kowloon, HKSAR, China ♦ Tel: (852)3185 8000.  
 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. ANAB is recognized by ILAC, APAC and IAAC as a signatory of multilateral recognition arrangements that facilitate acceptance of test internationally.  
 Test(s) marked with 'φ' was subcontracted to external laboratory.

The test result(s) and conclusion(s) in this report relate only to the sample(s) as received and method /regulation section(s) tested as described herein.  
 If it is not further specified in the report, the decision rule for stating conformity is based on the [QIMA decision rule](#).  
 This test report may not be reproduced in whole or in part, without written approval of QIMA Testing (HK) Limited.

Data Consolidation Reference

Specimen No.	Transferred from		Date of Issue
	Report No.	Specimen No.	
20	19H-007531	16	October 24, 2019
21	19H-007531	17	October 24, 2019

QIMA Testing (HK) Limited ♦ 3/F Liven House, No. 61 – 63 King Yip Street, Kwun Tong, Kowloon, HKSAR, China ♦ Tel: (852)3185 8000.

*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.*

*ANAB is recognized by ILAC, APAC and IAAC as a signatory of multilateral recognition arrangements that facilitate acceptance of test internationally.*

*Test(s) marked with 'φ' was subcontracted to external laboratory.*

*The test result(s) and conclusion(s) in this report relate only to the sample(s) as received and method /regulation section(s) tested as described herein.*

*If it is not further specified in the report, the decision rule for stating conformity is based on the [QIMA decision rule](#).*

*This test report may not be reproduced in whole or in part, without written approval of QIMA Testing (HK) Limited.*

**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.:	22	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)

Data Consolidation Reference

Specimen No.	Transferred from		Date of Issue
	Report No.	Specimen No.	
22	19H-007531	18	October 24, 2019

QIMA Testing (HK) Limited ♦ 3/F Liven House, No. 61 – 63 King Yip Street, Kwun Tong, Kowloon, HKSAR, China ♦ Tel: (852)3185 8000.  
 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. ANAB is recognized by ILAC, APAC and IAAC as a signatory of multilateral recognition arrangements that facilitate acceptance of test internationally.  
 Test(s) marked with 'φ' was subcontracted to external laboratory.

The test result(s) and conclusion(s) in this report relate only to the sample(s) as received and method /regulation section(s) tested as described herein.

If it is not further specified in the report, the decision rule for stating conformity is based on the [QIMA decision rule](#).

This test report may not be reproduced in whole or in part, without written approval of QIMA Testing (HK) Limited.

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

Specimen No.	10+11+12	13+14	16	---	---	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
<b>Conclusion</b>	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.

**Data Consolidation Reference**

Specimen No.	Transferred from		Date of Issue
	Report No.	Specimen No.	
5	19H-007531	3	October 24, 2019
6+7	19H-007531	1+2	October 24, 2019
8	19H-007531	4	October 24, 2019
10+11+12	19H-007531	6+7+8	October 24, 2019
13+14	19H-007531	9+10	October 24, 2019
16	19H-007531	12	October 24, 2019

QIMA Testing (HK) Limited ♦ 3/F Liven House, No. 61 – 63 King Yip Street, Kwun Tong, Kowloon, HKSAR, China ♦ Tel: (852)3185 8000.

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.

ANAB is recognized by ILAC, APAC and IAAC as a signatory of multilateral recognition arrangements that facilitate acceptance of test internationally.

Test(s) marked with 'φ' was subcontracted to external laboratory.

The test result(s) and conclusion(s) in this report relate only to the sample(s) as received and method /regulation section(s) tested as described herein.

If it is not further specified in the report, the decision rule for stating conformity is based on the [QIMA decision rule](#).

This test report may not be reproduced in whole or in part, without written approval of QIMA Testing (HK) Limited.



**SPECIMEN DESCRIPTION:**

Specimen No.	Specimen Description	Location
1	Red/ white inseparable coating	On outer body/ outer base (25oz – Red style)
2	Orange/ white inseparable coating	On outer body/ outer base (25oz – Gold style)
3	Purple/ white inseparable coating	On outer body/ outer base (25oz – Purple style)
4	Silvery/ white inseparable coating	On outer body/ outer base (all silver styles)
5	Black/ white inseparable coating	On outer body/ outer base (25oz – Black style)
6	Green/ white inseparable coating	On outer body/ outer base (28oz – Green style)
7	Blue/ white inseparable coating	On outer body/ outer base (28oz – Blue style)
8	Translucent soft plastic	Gasket of nozzle/ lid (all 25oz styles); gasket (all 28oz styles)
9	Light grey plastic	Handle (all 25oz styles)
10	Clear black plastic (PS)	Nozzle (all 25oz styles)
11	Grey plastic (PP-homo)	Lid (all 25oz styles)
12	Translucent plastic (PE-homo)	Straw (all 25oz styles)
13	Black plastic	Neck (all 25oz styles); lid/ neck (all 28oz styles)
14	Dull black plastic (PE-homo)	Flip lid (all 28oz styles)
15	Silvery metal	Screw (all 25oz styles)
16	Flat silvery metal	Body of bottle (all styles)
17	Translucent soft plastic (silicone)	Gasket of nozzle/ lid (all 25oz styles)
18	Translucent soft plastic (silicone)	Gasket (all 28oz styles)
19	Black plastic (PP-homo)	Lid (all 28oz styles)
20	Flat silvery metal	Interior of bottle (all 25oz styles)
21	Flat silvery metal	Interior of bottle (all 28oz styles)
22	Flat silvery metal	Interior of bottle (all styles)

QIMA Testing (HK) Limited ♦ 3/F Liven House, No. 61 – 63 King Yip Street, Kwun Tong, Kowloon, HKSAR, China ♦ Tel: (852)3185 8000.

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. ANAB is recognized by ILAC, APAC and IAAC as a signatory of multilateral recognition arrangements that facilitate acceptance of test internationally.

Test(s) marked with 'φ' was subcontracted to external laboratory.

The test result(s) and conclusion(s) in this report relate only to the sample(s) as received and method /regulation section(s) tested as described herein.

If it is not further specified in the report, the decision rule for stating conformity is based on the [QIMA decision rule](#).

This test report may not be reproduced in whole or in part, without written approval of QIMA Testing (HK) Limited.

**SAMPLE PHOTO:**



QIMA Testing (HK) Limited ♦ 3/F Liven House, No. 61 – 63 King Yip Street, Kwun Tong, Kowloon, HKSAR, China ♦ Tel: (852)3185 8000.

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. ANAB is recognized by ILAC, APAC and IAAC as a signatory of multilateral recognition arrangements that facilitate acceptance of test internationally.

Test(s) marked with 'φ' was subcontracted to external laboratory.

The test result(s) and conclusion(s) in this report relate only to the sample(s) as received and method /regulation section(s) tested as described herein.

If it is not further specified in the report, the decision rule for stating conformity is based on the [QIMA decision rule](#).

This test report may not be reproduced in whole or in part, without written approval of QIMA Testing (HK) Limited.

**SAMPLE PHOTO:**



-End Report-

QIMA Testing (HK) Limited ♦ 3/F Liven House, No. 61 – 63 King Yip Street, Kwun Tong, Kowloon, HKSAR, China ♦ Tel: (852)3185 8000.

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. ANAB is recognized by ILAC, APAC and IAAC as a signatory of multilateral recognition arrangements that facilitate acceptance of test internationally.

Test(s) marked with 'φ' was subcontracted to external laboratory.

The test result(s) and conclusion(s) in this report relate only to the sample(s) as received and method /regulation section(s) tested as described herein.

If it is not further specified in the report, the decision rule for stating conformity is based on the [QIMA decision rule](#).

This test report may not be reproduced in whole or in part, without written approval of QIMA Testing (HK) Limited.