

## TEST REPORT

Test Report # 20A-004172 Date of Report Issue: July 24, 2020  
Date of Sample Received: July 17, 2020 Pages: Page 1 of 18

## CLIENT INFORMATION:

Company: Digital on Demand  
Address: 44 Garden Street, Unit 3, Danvers, MA 01923



## SAMPLE INFORMATION:

Product Name: S/S vacuum water bottle (304 s/s inner & 201 s/s outer)  
Test Type: Full Test  
Model/style No.: SB271  
PO No.: PO2001000007, PO2002000013  
Buyer: -  
Supplier: -  
Country of Distribution: United States  
Country of Origin: China  
Testing Period: 07/17/2020-07/24/2020

## OVERALL RESULT:

 **PASS with  
information**

Please refer to the following pages for test result summary and appropriate notes.

QIMA (HANGZHOU) TESTING CO., LTD.

Kevin Lee

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Technical Manager



RC-CSHZ-R026

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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.

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**TEST RESULTS SUMMARY:**

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

CONCLUSION	TEST(S) CONDUCTED
PASS	California Proposition 65, Total Lead in Paints and Surface Coatings
PASS	California Proposition 65, Total Lead in Substrate Materials
PASS	The Illinois Lead Poisoning Prevention Act (LPPA) (410 ILCS 45/6), Total Lead in Paints and Surface Coatings of Other Items
PASS	The Illinois Lead Poisoning Prevention Act (LPPA) (410 ILCS 45/6), Total Lead in Substrate Materials of Other Items
PASS	Client's requirement, Bisphenol A content
PASS	California Proposition 65, Phthalates (DBP, BBP, DEHP, DINP, DIDP, DnHP)
PASS	California Proposition 65, Lead and Cadmium – External Decoration
PASS	FDA 21 CFR 175.300, Resinous and Polymeric Coatings
PASS	FDA 21 CFR 177.1210, Closures with Sealing Gaskets
PASS	FDA 21 CFR 177.1520, Polypropylene Copolymers
Information only	FDA/GRAS Evaluation- Chemical Composition Analysis of Metal



**DETAILED RESULTS:****California Proposition 65, Total Lead in Paints and Surface Coatings**

Test Method: CPSC-CH-E1003-09.1

Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

Specimen No.	7+9+10	---	---	---	---	Limit (mg/kg)
Test Item	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	
Total Lead (Pb)	ND	---	---	---	---	90
<b>Conclusion</b>	PASS	---	---	---	---	

**Note:**

mg/kg = Milligrams per kilogram

LT = Less than

ND = Not detected (Reporting Limit = 15mg/kg)

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:****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.	4+6	5	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	---	---	100
<b>Conclusion</b>	PASS	PASS	PASS	---	---	

**Note:**

mg/kg = Milligrams per kilogram

LT = Less than

ND = Not detected (Reporting Limit = 15 mg/kg)

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:

**The Illinois Lead Poisoning Prevention Act (LPPA) (410 ILCS 45/6), Total Lead in Paints and Surface Coatings of Other Items**

Test Method: CPSC-CH-E1003-09.1

Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

Specimen No.	7+9+10	---	---	---	---	Total
Test Item	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Limit (mg/kg)
Total Lead (Pb)	ND	---	---	---	---	600
Conclusion	PASS	---	---	---	---	

*Note:*

mg/kg=Milligrams per kilogram

LT = Less than

ND = Not detected (Reporting Limit = 15mg/kg)

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



**DETAILED RESULTS:****The Illinois Lead Poisoning Prevention Act (LPPA) (410 ILCS 45/6), Total Lead in Substrate Materials of Other Items**

Test Method: CPSC-CH-E1001-08.3 (Metal) and/or CPSC-CH-E1002-08.3 (Non-Metal)

Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

Specimen No.	4+6	5	8	---	---	Total
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	---	---	600
<b>Conclusion</b>	PASS	PASS	PASS	---	---	

*Note:*

mg/kg=Milligrams per kilogram

LT = Less than

ND = Not detected (Reporting Limit = 15mg/kg)

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



**DETAILED RESULTS:****Client's requirement, Bisphenol A content**

Test Method: In-House Method

Analytical Method: Gas Chromatography-Mass Spectrometer

Liquid Chromatography-Mass Spectrometer (LC-MS)

Specimen No.	4+6	---	---	---	Client's limit (mg/kg)
Test Item	CAS No.	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	
Bisphenol A (BPA)	80-05-7	ND	---	---	Not Detected
<b>Conclusion</b>	PASS	---	---	---	

**Note:**

mg/kg=milligram per kilogram

ND=Not Detected(Reporting limit = 1mg/kg)

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





**DETAILED RESULTS:****California Proposition 65, Phthalates (DBP, BBP, DEHP, DINP, DIDP, DnHP)**

Test Method: CPSC-CH-C1001-09.4

Analytical Method: Gas Chromatography with Mass Spectrometry

Specimen No.		4+6	7+9+10	---	---	Limit ( mg/kg)
Test Item	CAS No.	Result ( mg/kg)	Result ( mg/kg)	Result ( mg/kg)	Result ( mg/kg)	
Dibutyl phthalate (DBP)	84-74-2	ND	ND	---	---	1000
Benzyl butyl phthalate (BBP)	85-68-7	ND	ND	---	---	1000
Di-(2-ethylhexyl) phthalate (DEHP)	117-81-7	ND	ND	---	---	1000
Diisononyl phthalate (DINP)	28553-12-0 68515-48-0	ND	ND	---	---	1000
Diisodecyl phthalate (DIDP)	26761-40-0 68515-49-1	ND	ND	---	---	1000
Di-n-hexyl phthalate (DnHP)	84-75-3	ND	ND	---	---	1000
<b>Conclusion</b>		PASS	PASS	---	---	

**Note:**

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

LT = Less than

ND = Not detected (Reporting Limit = 150 mg/kg)

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:

## California Proposition 65, Lead and Cadmium – External Decoration

Test Method: NIOSH Method 9100

Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

Specimen No.	1	2	3	---	---	Limit (µg/article)
Test Item	Result (µg/article)	Result (µg/article)	Result (µg/article)	Result (µg/article)	Result (µg/article)	
Lead (Pb)	ND	ND	ND	---	---	1.0
Cadmium (Cd)	ND	ND	ND	---	---	4.0
<b>Conclusion</b>	PASS	PASS	PASS	---	---	

## Note:

µg/article = Micrograms per article

LT = Less than

ND = Not detected (Reporting Limit = 0.4 µg/article)



**DETAILED RESULTS:****FDA 21 CFR 175.300, Resinous and Polymeric Coatings**

Test Method: FDA 21 CFR 175.300

Specimen No.			1	RL	Limit
Test Item	Test Condition		Result		
	Temp.	Duration			
Distilled water extractive (mg/in²)	Fill boiling	Cooling to 100°F	ND	0.1	18
n-Heptane extractive (mg/in²)	120°F	0.25 h	ND	0.1	18
8% Ethanol extractive (mg/in²)	Fill boiling	Cooling to 100°F	ND	0.1	18
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 175.300 (c) (3).



## DETAILED RESULTS:

### FDA 21 CFR 175.300, Resinous and Polymeric Coatings

Test Method: FDA 21 CFR 175.300

Specimen No.			2	RL	Limit
Test Item	Test Condition		Result		
	Temp.	Duration			
Distilled water extractive (mg/in²)	Fill boiling	Cooling to 100°F	0.1	0.1	18
n-Heptane extractive (mg/in²)	120°F	0.25 h	ND	0.1	18
8% Ethanol extractive (mg/in²)	Fill boiling	Cooling to 100°F	ND	0.1	18
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 175.300 (c) (3).





## DETAILED RESULTS:

### FDA 21 CFR 175.300, Resinous and Polymeric Coatings

Test Method: FDA 21 CFR 175.300

Specimen No.			3	RL	Limit
Test Item	Test Condition		Result		
	Temp.	Duration			
Distilled water extractive (mg/in²)	Fill boiling	Cooling to 100°F	0.2	0.1	18
n-Heptane extractive (mg/in²)	120°F	0.25 h	ND	0.1	18
8% Ethanol extractive (mg/in²)	Fill boiling	Cooling to 100°F	ND	0.1	18
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 175.300 (c) (3).



**DETAILED RESULTS:****FDA 21 CFR 177.1210, Closures with Sealing Gaskets**

Test Method: FDA 21 CFR 177.1210

Specimen No.			4	RL	Limit
Test Item	Test Condition		Result		
	Temp.	Duration			
Distilled water extractive (mg/kg)	212°F	0.5hours	ND	10	50
n-Heptane extractive (mg/kg)	120°F	0.5hours	ND	10	50
8% Ethanol extractive (mg/kg)	212°F	0.5hours	ND	10	50
Conclusion			PASS		

**Note:**

Temp. = Temperature

°F = Degree Fahrenheit

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

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 3.



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

Test Method: FDA 21 CFR 177.1520

Specimen No.			6	RL	Limit
Test Item	Test Condition		Result		
	Temp.	Duration			
Density (g/cc)	NA	NA	0.894	NA	0.85 – 1.00
n-Hexane extractive (% w/w)	50°C	2 hours	ND	0.4	5.5
Xylene extractive (% w/w)	Reflux	2 hours or total dissolved	2	1	30
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) 3.1a.





## DETAILED RESULTS:

## FDA/GRAS Evaluation- Chemical Composition Analysis of Metal

Test method: SN/T 2718-2010 &amp; GB/T 20123-2006 &amp; GB/T 223.59-2008

Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry  
Ultraviolet-Visible Spectrophotometry  
C-S analyzerTest result: The sample **meet** the chemical requirements of AISI 304 stainless steel.

Specimen No.:	5	---	---	---	---
Test Item	Result (% m/m)	Result (% m/m)	Result (% m/m)	Result (% m/m)	Result (% m/m)
Carbon (C)	0.050 <sup>φ</sup>	---	---	---	---
Sulphur (S)	0.0040 <sup>φ</sup>	---	---	---	---
Silicon (Si)	0.37	---	---	---	---
Manganese (Mn)	1.09	---	---	---	---
Phosphorus (P)	0.026	---	---	---	---
Chromium (Cr )	18.73	---	---	---	---
Nickel (Ni)	8.58	---	---	---	---
Type of Stainless steel Name	AISI 304	---	---	---	---
<b>Conclusion</b>	Information only	---	---	---	---

## Note:

% m/m = Percent by mass

LT = Less than

Type of Stainless steel Name	C	S	Si	Mn	P	Cr	Ni	Mo	Cu
AISI 304	≤0.08	≤0.03	≤1.00	≤2.00	≤0.045	18~20	8~10.5	-	-



## SPECIMEN DESCRIPTION:

Specimen No.	Specimen Description	Location
1	Light pink coated silvery metal	Exterior(light pink style)(SB271)
2	Black coated silvery metal	Exterior(black style)(SB271)
3	Charcoal coated silvery metal	Exterior(charcoal style)(SB271)
4	Grey soft plastic	Seal ring(black style)(SB271)
5	Silvery metal(304S/S)	Interior(light pink style)(SB271)
6	Grey plastic(PP)	Lid(light pink style)(SB271)
7	Light pink coating	Main body(light pink style)(SB271)
8	Silvery metal(2015/S)	Main body(light pink style)(SB271)
9	Black coating	Main body(black style)(SB271)
10	Charcoal coating	Main body(charcoal style)(SB271)



## SAMPLE PHOTO:





## SAMPLE PHOTO:



-End Report-



RC-CSHZ-R026

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