

# Test Report

No.: 68.431.23.4754.02

Date: 2024-02-18



**Applicant:** Spector & Co  
**Address:** /  
**Product Name:** 20 OZ/600 ML DOUBLE WALL STAINLESS STEEL BOTTLE  
**End Use:** DRINKWARE  
**Item No.:** DW302  
**Style No.:** TRENDSETTER REFLECTION  
**Supplier:** USS049  
**Country of Origin:** CHINA  
**Country of Destination:** CANADA & U.S.A.  
**Receipt Date of Sample:** 2023-12-28, 2024-01-25, 2024-02-05  
**Date of Testing:** From 2024-01-02 to 2024-02-18  
**Sample Submitted:** The sample(s) was (were) submitted by applicant and identified.  
**Test Result:** Refer to the data listed in following pages

Test Item	Conclusion
1. US California Proposition 65 - Total Cadmium Content Test - Paint and Similar Surface-Coating Materials	Pass*
2. US California Proposition 65 - Total Cadmium Content Test - Substrate Materials	Pass*
3. US California Proposition 65 - Total lead Content Test - Paint and Similar Surface-Coating Materials	Pass*
4. US California Proposition 65 - Total Lead Content Test - Substrate Materials	Pass*
5. Phthalates Content (11P)	Pass*
6. Tungsten Content Test	Report As Is
7. Canada Consumer Product Safety Act (S.C. 2010, c. 21), Surface Coating Materials Regulations SOR/2016-193 and SOR/2022-122 - Total Mercury	Pass
8. Canada Consumer Product Safety Act (S.C. 2010, c. 21), Surface Coating Materials Regulations SOR/2016-193 and SOR/2022-122 - Total Lead	Pass
9. Canadian Consumer Products Containing Lead Regulations SOR/2018-83 - Total Lead Content Test	Pass
10. Total Nickel Content Test	Report As Is
11. U.S. CFR Title 16 Part 1307 - Toys and Childcare Articles - Phthalates Content (8P)	Pass
12. US California Proposition 65 - Phthalates Content (6P)	Pass*
13. Bisphenol A Content	Pass*
14. FDA CFR Title 21 Part 177.1520 - Test for compliance with the selected requirement(s) in U.S. F.D.A. C.F.R. 21. Part 177.1520	Pass
15. FDA CFR Title 21 Part 177.1210 - Test for compliance with the selected requirement(s) in U.S. F.D.A. C.F.R. 21. Part 177.1210	Pass
16. Total Chromium Content - Test for compliance with the selected requirement(s) in the General Recognized As Safe (GRAS) specification according to United State Food and Drug Administration (US FDA) Regulations on stainless steel	Pass

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Phone: +86 755 8828 6998  
Fax: +86 755 8828 5299  
E-mail: info@tuv sud.com  
Web : http://www.tuvsud.cn

Lab 1 - Chemical testing and part of electrical testing Building 12&13, Zhiheng Wisdomland Business Park, Guankou Erlu, Nantou, Nanshan District, Shenzhen, Guangdong, China

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- Remarks:
1. MDL = Method Detection Limit
  2. N.D. = Not Detected (<MDL)
  3. ≤ Less than
  4. 1 mg/kg = 1 ppm = 0.0001%
  5. NA=Not Applicable

**TÜV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch  
Testing Center**

Prepared by:

Authorized by:

**Huang, Jessica  
Senior Project Coordinator**

**Shu, Steven  
Senior Project Coordinator**

**Note:**

- (1) The TÜV SÜD Certification and Testing (China) Co., Ltd. "General Terms & Conditions" applied.  
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For further details, please see "Testing and certification regulation", chapter A-3.4  
For full version, please visit: EN : <https://www.tuvsud.cn/zh-cn/resource/terms-and-conditions---en> ; SCN: <https://www.tuvsud.cn/zh-cn/terms-and-conditions> ; TCN: <https://www.tuvsud.com/zh-tw/terms-and-conditions>
- (2) The results relate only to the Items tested.
- (3) The test report shall not be reproduced except in full without the written approval of the laboratory
- (4) If relevant standards do not specify decision rule(s), follow decision rule as below:  
- "Pass" means that the measured result is within the limits, even when extended by expanded uncertainty at a level of confidence of 95%.  
- "Fail" means that the measured result is beyond the limit, even when extended by expanded uncertainty at a level of confidence of 95%.
- (5) The test items and samples were specified by the client.
- (6) "" denotes the conclusion was drawn according to the client's specification.

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Web : <http://www.tuvsud.cn>

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Description of Tested Subject:

Sample	Description	Photo
A	Whole product	

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Sample	Description	Photo
001	White coating (On lid & bottle) (Submitted on 2024-02-05)	
002	Red coating (On lid & bottle)	
003	Steel grey coating (On lid & bottle)	

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004	Black PP-CO plastic (Lid & moth)	
005	Translucent white silicone (Sealing ring)	
006	Silver stainless steel 304 (Inner body)	
007	Silver stainless steel 201 (Lid & outside body)	
008	Black silicone (Bottom pad)	

T. No	Sample	Description
T1	001	White coating (On lid & bottle) (Submitted on 2024-02-05)
T2	002	Red coating (On lid & bottle)
T3	003	Steel grey coating (On lid & bottle)
T4	004	Black PP-CO plastic (Lid & moth)
T5	005	Translucent white silicone (Sealing ring)
T6	006	Silver stainless steel 304 (Inner body)
T7	007	Silver stainless steel 201 (Lid & outside body)
T8	008	Black silicone (Bottom pad)

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**Test Result(s):**

**1. US California Proposition 65 - Total Cadmium Content Test - Paint and Similar Surface-Coating Materials**

Test with reference to microwave digestion, determination by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES).

Sample	Unit	MDL	Client's Limit	Result(s)	Conclusion
001	mg/kg	10	75	N.D.	Pass
002+003	mg/kg	10	75	N.D.	Pass

**2. US California Proposition 65 - Total Cadmium Content Test - Substrate Materials**

Test with reference to acid digestion or microwave digestion, determination by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES).

Sample	Unit	MDL	Client's Limit	Result(s)	Conclusion
004	mg/kg	10	75	N.D.	Pass
005+008	mg/kg	10	75	N.D.	Pass
006	mg/kg	10	75	N.D.	Pass
007	mg/kg	10	75	N.D.	Pass

**3. US California Proposition 65 - Total Lead Content Test - Paint and Similar Surface-Coating Materials**

Test with reference to microwave digestion, determination by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES).

Sample	Unit	MDL	Client's Limit	Result(s)	Conclusion
001	mg/kg	10	90	55.0	Pass
002+003	mg/kg	10	90	N.D.	Pass

**4. US California Proposition 65 - Total Lead Content Test - Substrate Materials**

Test with reference to acid digestion or microwave digestion, determination by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES).

Sample	Unit	MDL	Client's Limit	Result(s)	Conclusion
004	mg/kg	10	100	N.D.	Pass
005+008	mg/kg	10	100	N.D.	Pass
006	mg/kg	10	100	N.D.	Pass
007	mg/kg	10	100	N.D.	Pass

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5. Phthalates Content (11P)

Test with reference to in-house method, solvent extracted and analyzed by Gas Chromatography and Mass Spectrometry (GC-MS).

Parameter	CAS No.	Unit	MDL	Client's Limit	Result(s)	
					001	002+003
Diethyl phthalate(DEP)	84-66-2	%	0.005	0.1	N.D.	N.D.
Benzyl butyl phthalate, (BBP)	85-68-7	%	0.005	0.1	N.D.	N.D.
Diisobutylphthalate, (DIBP)	84-69-5	%	0.005	0.1	N.D.	N.D.
Dibutyl phthalate, (DBP)	84-74-2	%	0.005	0.1	0.022	N.D.
Di-n-hexyl phthalate (DnHP)	84-75-3	%	0.005	0.1	N.D.	N.D.
Dicyclohexyl phthalate (DCHP)	84-61-7	%	0.005	0.1	N.D.	N.D.
Bis (2-ethylhexyl) phthalate, (DEHP)	117-81-7	%	0.005	0.1	N.D.	N.D.
Di-n-octyl phthalate, (DNOP)	117-84-0	%	0.005	0.1	N.D.	N.D.
Di-isononyl phthalate, (DINP)	28553-12-0	%	0.005	0.1	N.D.	N.D.
Di-isodecyl phthalate, (DIDP)	26761-40-0	%	0.005	0.1	N.D.	N.D.
Di-n-pentyl phthalates (DnPP)	131-18-0	%	0.005	0.1	N.D.	N.D.
<b>Conclusion</b>					<b>Pass</b>	<b>Pass</b>

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Parameter	CAS No.	Unit	MDL	Client's Limit	Result(s)	
					004	005+008
Diethyl phthalate(DEP)	84-66-2	%	0.005	0.1	N.D.	N.D.
Benzyl butyl phthalate, (BBP)	85-68-7	%	0.005	0.1	N.D.	N.D.
Diisobutylphthalate, (DIBP)	84-69-5	%	0.005	0.1	N.D.	N.D.
Dibutyl phthalate, (DBP)	84-74-2	%	0.005	0.1	N.D.	N.D.
Di-n-hexyl phthalate (DnHP)	84-75-3	%	0.005	0.1	N.D.	N.D.
Dicyclohexyl phthalate (DCHP)	84-61-7	%	0.005	0.1	N.D.	N.D.
Bis (2-ethylhexyl) phthalate, (DEHP)	117-81-7	%	0.005	0.1	N.D.	N.D.
Di-n-octyl phthalate, (DNOP)	117-84-0	%	0.005	0.1	N.D.	N.D.
Di-isononyl phthalate, (DINP)	28553-12-0	%	0.005	0.1	N.D.	N.D.
Di-isodecyl phthalate, (DIDP)	26761-40-0	%	0.005	0.1	N.D.	N.D.
Di-n-pentyl phthalates (DnPP)	131-18-0	%	0.005	0.1	N.D.	N.D.
<b>Conclusion</b>					<b>Pass</b>	<b>Pass</b>

## 6. Tungsten Content Test

Test with reference to acid digestion and determination by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES)

Test items	Unit	MDL	Maximum Permissible Limit	Result(s)
				007
Tungsten(W)	mg/kg	10.0	-	N.D.
<b>Conclusion</b>				<b>Report As Is</b>

## 7. Canada Consumer Product Safety Act (S.C. 2010, c. 21), Surface Coating Materials Regulations SOR/2016-193 and SOR/2022-122 - Total Mercury

Test with reference to microwave digestion, determination by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES).

Sample	Unit	MDL	Limit	Result(s)	Conclusion
001	mg/kg	10	10.0	N.D.	Pass
002	mg/kg	10	10.0	N.D.	Pass
003	mg/kg	10	10.0	N.D.	Pass

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**8. Canada Consumer Product Safety Act (S.C. 2010, c. 21), Surface Coating Materials Regulations SOR/2016-193 and SOR/2022-122 - Total Lead**

Test with reference to microwave digestion, determination by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES).

Sample	Unit	MDL	Limit	Result(s)	Conclusion
001	mg/kg	10	90	55.0	Pass
002+003	mg/kg	10	90	N.D.	Pass

**9. Canadian Consumer Products Containing Lead Regulations SOR/2018-83 - Total Lead Content Test**

Test with reference to acid digestion or microwave digestion, determination by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES).

Sample	Unit	MDL	Limit	Result(s)	Conclusion
001	mg/kg	10	90	55.0	Pass
002+003	mg/kg	10	90	N.D.	Pass
004	mg/kg	10	90	N.D.	Pass
005+008	mg/kg	10	90	N.D.	Pass
006	mg/kg	10	90	N.D.	Pass
007	mg/kg	10	90	N.D.	Pass

**10. Total Nickel Content Test**

Test with reference to acid digestion, determination by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES).

Sample	Unit	MDL	Limit	Result(s)	Conclusion
006	mg/kg	5	-	94346.247	Report As Is
007	mg/kg	5	-	18858.131	Report As Is

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## 11. U.S. CFR Title 16 Part 1307 - Toys and Childcare Articles - Phthalates Content (8P)

Test with reference to in-house method, solvent extracted and analyzed by Gas Chromatography and Mass Spectrometry (GC-MS).

Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					001	002+003
Benzyl butyl phthalate, (BBP)	85-68-7	%	0.005	0.1	N.D.	N.D.
Diisobutylphthalate, (DIBP)	84-69-5	%	0.005	0.1	N.D.	N.D.
Dibutyl phthalate, (DBP)	84-74-2	%	0.005	0.1	0.022	N.D.
Di-n-hexyl phthalate (DnHP)	84-75-3	%	0.005	0.1	N.D.	N.D.
Dicyclohexyl phthalate (DCHP)	84-61-7	%	0.005	0.1	N.D.	N.D.
Bis (2-ethylhexyl) phthalate, (DEHP)	117-81-7	%	0.005	0.1	N.D.	N.D.
Di-isononyl phthalate, (DINP)	28553-12-0	%	0.005	0.1	N.D.	N.D.
Di-n-pentyl phthalates (DnPP)	131-18-0	%	0.005	0.1	N.D.	N.D.
<b>Conclusion</b>					<b>Pass</b>	<b>Pass</b>

Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					004	005+008
Benzyl butyl phthalate, (BBP)	85-68-7	%	0.005	0.1	N.D.	N.D.
Diisobutylphthalate, (DIBP)	84-69-5	%	0.005	0.1	N.D.	N.D.
Dibutyl phthalate, (DBP)	84-74-2	%	0.005	0.1	N.D.	N.D.
Di-n-hexyl phthalate (DnHP)	84-75-3	%	0.005	0.1	N.D.	N.D.
Dicyclohexyl phthalate (DCHP)	84-61-7	%	0.005	0.1	N.D.	N.D.
Bis (2-ethylhexyl) phthalate, (DEHP)	117-81-7	%	0.005	0.1	N.D.	N.D.
Di-isononyl phthalate, (DINP)	28553-12-0	%	0.005	0.1	N.D.	N.D.
Di-n-pentyl phthalates (DnPP)	131-18-0	%	0.005	0.1	N.D.	N.D.
<b>Conclusion</b>					<b>Pass</b>	<b>Pass</b>

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12. US California Proposition 65 - Phthalates Content (6P)

Test with reference to in-house method, solvent extracted and analyzed by Gas Chromatography and Mass Spectrometry (GC-MS).

Parameter	CAS No.	Unit	MDL	Client's Limit	Result(s)	
					001	002+003
Dibutyl phthalate, (DBP)	84-74-2	%	0.005	0.1	0.022	N.D.
Bis (2-ethylhexyl) phthalate, (DEHP)	117-81-7	%	0.005	0.1	N.D.	N.D.
Benzyl butyl phthalate, (BBP)	85-68-7	%	0.005	0.1	N.D.	N.D.
Di-isodecyl phthalate, (DIDP)	26761-40-0	%	0.005	0.1	N.D.	N.D.
Di-n-hexyl phthalate (DNHP)	84-75-3	%	0.005	0.1	N.D.	N.D.
Di-isononyl phthalate, (DINP)	28553-12-0	%	0.005	0.1	N.D.	N.D.
<b>Conclusion</b>					<b>Pass</b>	<b>Pass</b>

Parameter	CAS No.	Unit	MDL	Client's Limit	Result(s)	
					004	005+008
Dibutyl phthalate, (DBP)	84-74-2	%	0.005	0.1	N.D.	N.D.
Bis (2-ethylhexyl) phthalate, (DEHP)	117-81-7	%	0.005	0.1	N.D.	N.D.
Benzyl butyl phthalate, (BBP)	85-68-7	%	0.005	0.1	N.D.	N.D.
Di-isodecyl phthalate, (DIDP)	26761-40-0	%	0.005	0.1	N.D.	N.D.
Di-n-hexyl phthalate (DNHP)	84-75-3	%	0.005	0.1	N.D.	N.D.
Di-isononyl phthalate, (DINP)	28553-12-0	%	0.005	0.1	N.D.	N.D.
<b>Conclusion</b>					<b>Pass</b>	<b>Pass</b>

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## 13. Bisphenol A Content

Test method: With reference to In house method followed by LC-MSMS analysis.

Compound	CAS No.	Unit	MDL	Client's Limit	Result(s)	
					001	002
Bisphenol A	80-05-7	mg/kg	0.1	0.1	N.D.	N.D.
<b>Conclusion</b>					<b>Pass</b>	<b>Pass</b>

Compound	CAS No.	Unit	MDL	Client's Limit	Result(s)	
					003	004
Bisphenol A	80-05-7	mg/kg	0.1	0.1	N.D.	N.D.
<b>Conclusion</b>					<b>Pass</b>	<b>Pass</b>

Compound	CAS No.	Unit	MDL	Client's Limit	Result(s)	
					005	008
Bisphenol A	80-05-7	mg/kg	0.1	0.1	N.D.	N.D.
<b>Conclusion</b>					<b>Pass</b>	<b>Pass</b>

## 14. FDA CFR Title 21 Part 177.1520

Test for compliance with the selected requirement(s) in U.S. F.D.A. C.F.R. 21. Part 177.1520

TEST ITEMS	RESULTS	CFR Specification [PP/PE Copolymer]
	SAMPLE 004	
Density [g/cc]	0.900	0.85 - 1.00
Maximum extractive in n-hexane 50°C for 2 hours [%]	<1.00	5.5
Maximum extractive in xylene after reflux for 2 hours and 25°C for 1 hour [%]	2.11	30
<b>Conclusion</b>	Pass	-

## Note:

1. “%” denotes percentage by weight
2. “g/cc” denotes gram per cubic centimeter
3. “<” denotes less than
4. “°C” denotes degree Celsius
5. The specification is quoted from U.S. F.D.A. C.F.R. 21. Part 177.1520

Regd. Office:

TüV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch  
 Building 12&13, Zhiheng Wisdomland Business Park, Guankou Erlu, Nantou, Nanshan District,  
 Shenzhen, Guangdong, China

Phone: +86 755 8828 6998

Fax: +86 755 8828 5299

E-mail: info@tuv sud.com

Web : http://www.tuvsud.cn

Lab 1 - Chemical testing and part of electrical testing

Building 12&amp;13, Zhiheng Wisdomland Business Park, Guankou Erlu, Nantou, Nanshan District, Shenzhen, Guangdong, China

Lab 2 - Physical &amp; Mechanical Test:

Building A2, Jin'ao Industrial Park, No. 150, Jingfang Road, Fuhai, Baoan District, Shenzhen, Guangdong, China



**15. FDA CFR Title 21 Part 177.1210**

Test for compliance with the selected requirement(s) in U.S. F.D.A. C.F.R. 21. Part 177.1210

TEST ITEMS	TEST CONDITIONS	MDL [ppm]	RESULT [ppm]	CFR Specification [ppm]
			SAMPLE 005	
Chloroform extractives in Distilled water	Fill boiling water and then cool to 100 °F	10	N.D.	50
Chloroform extractives in 8% Ethanol	Fill boiling 8% ethanol and then cool to 100 °F	10	N.D.	50
<b>Conclusion</b>			Pass	-

Note:

1. "ppm" denotes part per million
2. "<" denotes less than
3. "°F" denotes degree Fahrenheit
4. The specification is quoted from U.S. F.D.A. C.F.R. 21. Part 177.1210

**16. Total Chromium Content**

Test for compliance with the selected requirement(s) in the General Recognized As Safe (GRAS) specification according to United State Food and Drug Administration (US FDA) Regulations on stainless steel

Test Method: Digested by acid and analyzed by Inductively Coupled Plasma Optical Emission Spectrometry (ICP-OES)

Analyte	Results [%]
	Sample 006
Total Chromium(Cr)	17.66
<b>Limit</b>	Not less than 16
<b>Conclusion</b>	Pass

Note:

- "%" denotes percentage by weight

-End of Test Report-