



Test Report

No.: 68.431.23.4281.01

Date: 2023-12-08

Applicant: Spector & Co
Address: /
Product Name: 24 OZ/700 ML SINGLE WALL TRITAN WATER BOTTLE
Product Type / End use: DRINKWARE
Item No.: DW103
Style No.: SHOWSTOPPER
Supplier: USS049
Country of Origin: CHINA
Country of Destination: CANADA & U.S.A.
Receipt Date of Sample: 2023-11-20, 2023-12-04
Date of Testing: From 2023-11-22 to 2023-12-08
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. Canada Consumer Product Safety Act (S.C. 2010, c. 21), Surface Coating Materials Regulations SOR/2016-193 and SOR/2022-122 - Total Mercury	Pass
7. Canada Consumer Product Safety Act (S.C. 2010, c. 21), Surface Coating Materials Regulations SOR/2016-193 and SOR/2022-122 - Total Lead	Pass
8. Canadian Consumer Products Containing Lead Regulations SOR/2018-83 - Total Lead Content Test	Pass
9. U.S. CFR Title 16 Part 1307 - Toys and Childcare Articles - Phthalates Content (8P)	Pass
10. US California Proposition 65 - Phthalates Content (6P)	Pass*
11. Bisphenol A Content	Pass*
12. 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
13. FDA CFR Title 21 Part 177.1640 - Test for compliance with the selected requirement(s) in U.S. F.D.A. C.F.R. 21. Part 177.1640	Pass
14. FDA CFR Title 21 Part 177.2420 - Test for compliance with the selected requirement(s) in U.S. F.D.A. C.F.R. 21. Part 177.2420	Pass

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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

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Lab 2 - Physical & Mechanical Test: Building A2, Jin'ao Industrial Park, No. 150, Jingfang Road, Fuhai, Baoan District, Shenzhen, Guangdong, China



- 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 item and sample were specified by the client.
- (6) ""*"" denotes the conclusion was drawn according to the client's specification.

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Description of Tested Subject:

Sample	Description	Photo
A	Whole product	
001	White PS plastic (Lid)	
002	Transparent tritan (Body)	

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Sample	Description	Photo
003	Black PS plastic (Lid)	
004	Transparent black tritan (Body)	
005	Olive green PS plastic (Lid)	
006	Transparent green tritan (Body)	

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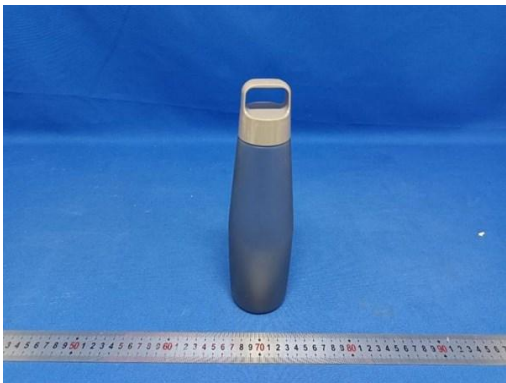




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Sample	Description	Photo
007	Tan PS plastic (Lid)	
008	Transparent grey tritan (Body)	
009	Blue PS plastic (Lid)	
010	Transparent blue tritan (Body)	
011	Translucent white coating (On body)	

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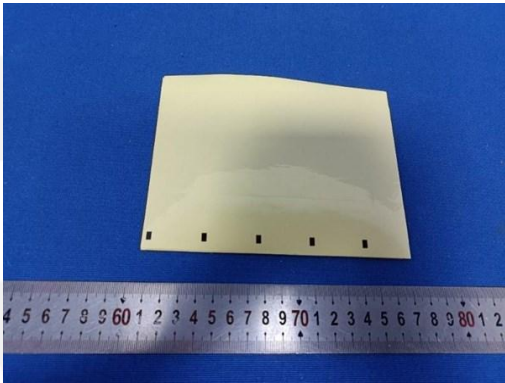
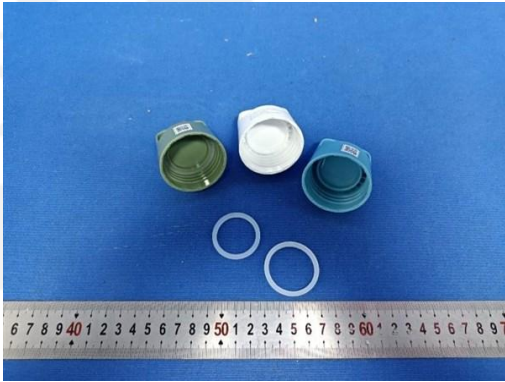
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Sample	Description	Photo
012	Translucent white silicone (Sealing ring)	
015	White printed clear plastic sticker (Tracking label)	
016	Black printed white paper sticker (QR code label)	

T. No	Sample	Description
T1	001	White PS plastic (Lid)
T2	002	Transparent tritan (Body)
T3	003	Black PS plastic (Lid)
T4	004	Transparent black tritan (Body)
T5	005	Olive green PS plastic (Lid)
T6	006	Transparent green tritan (Body)
T7	007	Tan PS plastic (Lid)

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T. No	Sample	Description
T8	008	Transparent grey tritan (Body)
T9	009	Blue PS plastic (Lid)
T10	010	Transparent blue tritan (Body)
T11	011	Translucent white coating (On body)
T12	012	Translucent white silicone (Sealing ring)
T13	015	White printed clear plastic sticker (Tracking label)
T14	016	Black printed white paper sticker (QR code label)

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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
011	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
001+002+003	mg/kg	10	75	N.D.	Pass
004+005+006	mg/kg	10	75	N.D.	Pass
007+008+009	mg/kg	10	75	N.D.	Pass
010+012	mg/kg	10	75	N.D.	Pass
015+016	mg/kg	10	75	N.D.	Pass

Remark:

- The test results of the sample 015+016 is transferred from sample 001+002 of report 68.431.23.4334.

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
011	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
001+002+003	mg/kg	10	100	N.D.	Pass
004+005+006	mg/kg	10	100	N.D.	Pass
007+008+009	mg/kg	10	100	N.D.	Pass
010+012	mg/kg	10	100	N.D.	Pass
015+016	mg/kg	10	100	N.D.	Pass

Remark:

- The test results of the sample 015+016 is transferred from sample 001+002 of report 68.431.23.4334.

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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	004+005+006
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.
Conclusion					Pass	Pass

Parameter	CAS No.	Unit	MDL	Client's Limit	Result(s)	
					007+008+009	010+012
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.

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Di-n-pentyl phthalates (DnPP)	131-18-0	%	0.005	0.1	N.D.	N.D.
Conclusion					Pass	Pass

Parameter	CAS No.	Unit	MDL	Client's Limit	Result(s)	
					011	015+016
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.
Conclusion					Pass	Pass

Remark:

- The test results of the sample 015+016 is transferred from sample 001+002 of report 68.431.23.4334.

6. 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
011	mg/kg	10	10.0	N.D.	Pass
015+016	mg/kg	10	10.0	N.D.	Pass

Remark:

- The test results of the sample 015+016 is transferred from sample 001+002 of report 68.431.23.4334.

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7. 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
011	mg/kg	10	90	N.D.	Pass
015+016	mg/kg	10	90	N.D.	Pass

Remark:

- The test results of the sample 015+016 is transferred from sample 001+002 of report 68.431.23.4334.

8. 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+002+003	mg/kg	10	90	N.D.	Pass
004+005+006	mg/kg	10	90	N.D.	Pass
007+008+009	mg/kg	10	90	N.D.	Pass
010+012	mg/kg	10	90	N.D.	Pass
011	mg/kg	10	90	N.D.	Pass
015+016	mg/kg	10	90	N.D.	Pass

Remark:

- The test results of the sample 015+016 is transferred from sample 001+002 of report 68.431.23.4334.

9. 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	004+005+006
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.

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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.
Conclusion					Pass	Pass

Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					007+008+009	010+012
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.
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Dicyclohexyl phthalate (DCHP)	84-61-7	%	0.005	0.1	N.D.	N.D.
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Di-n-pentyl phthalates (DnPP)	131-18-0	%	0.005	0.1	N.D.	N.D.
Conclusion					Pass	Pass

Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					011	015+016
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.
Conclusion					Pass	Pass

Remark:

- The test results of the sample 015+016 is transferred from sample 001+002 of report 68.431.23.4334.

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 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@tuvsud.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
 Lab 2 - Physical & Mechanical Test: Building A2, Jin'ao Industrial Park, No. 150, Jingfang Road, Fuhai, Baoan District, Shenzhen, Guangdong, China

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10. 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	004+005+006
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.
Conclusion					Pass	Pass

Parameter	CAS No.	Unit	MDL	Client's Limit	Result(s)	
					007+008+009	010+012
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.
Conclusion					Pass	Pass

Parameter	CAS No.	Unit	MDL	Client's Limit	Result(s)	
					011	015+016
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.

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 Shenzhen, Guangdong, China

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Fax: +86 755 8828 5299

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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.
Conclusion					Pass	Pass

Remark:

1. The test results of the sample 015+016 is transferred from sample 001+002 of report 68.431.23.4334.

11. 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.
Conclusion					Pass	Pass

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.
Conclusion					Pass	Pass

Compound	CAS No.	Unit	MDL	Client's Limit	Result(s)	
					005	006
Bisphenol A	80-05-7	mg/kg	0.1	0.1	N.D.	N.D.
Conclusion					Pass	Pass

Compound	CAS No.	Unit	MDL	Client's Limit	Result(s)	
					007	008
Bisphenol A	80-05-7	mg/kg	0.1	0.1	N.D.	N.D.
Conclusion					Pass	Pass

Compound	CAS No.	Unit	MDL	Client's Limit	Result(s)	
					009	010
Bisphenol A	80-05-7	mg/kg	0.1	0.1	N.D.	N.D.
Conclusion					Pass	Pass

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Compound	CAS No.	Unit	MDL	Client's Limit	Result(s)	
					011	012
Bisphenol A	80-05-7	mg/kg	0.1	0.1	N.D.	N.D.
Conclusion					Pass	Pass

Compound	CAS No.	Unit	MDL	Client's Limit	Result(s)	
					015	016
Bisphenol A	80-05-7	mg/kg	0.1	0.1	N.D.	N.D.
Conclusion					Pass	Pass

Remark:

1. The test results of the sample 016 is transferred from sample 009 of report 68.431.23.4284.



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Phone: +86 755 8828 6998
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12. 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]
			012	
Chloroform extractives in Distilled water	Fill boiling water and then cool to 100 °F (38°C)	10	N.D.	50
Chloroform extractives in 8% Ethanol	Fill boiling water and then cool to 100 °F (38°C)	10	N.D.	50
Chloroform extractives in N-heptane	120 °F(49°C),15 mins	10	N.D.	50
Conclusion			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

13. FDA CFR Title 21 Part 177.1640

Test for compliance with the selected requirement(s) in U.S. F.D.A. C.F.R. 21. Part 177.1640

TEST ITEMS	RESULTS [%]			CFR Specification [%]
	001	003	005	
Residual styrene monomer Content	0.03	0.03	0.04	1.0
Conclusion	Pass	Pass	Pass	-

TEST ITEMS	RESULTS [%]		CFR Specification [%]
	007	009	
Residual styrene monomer Content	0.04	0.03	1.0
Conclusion	Pass	Pass	-

Note:

1. "%" denotes percent by weight
2. "<" denotes less than
3. The specification is quoted from U.S. F.D.A. C.F.R. 21. Part 177.1640

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14. FDA CFR Title 21 Part 177.2420

Test for compliance with the selected requirement(s) in U.S. F.D.A. C.F.R. 21. Part 177.2420

TEST ITEMS	TEST CONDITIONS	MDL [mg/in ²]	RESULT [mg/in ²]			CFR Specification [mg/in ²]
			002	004	006	
Chloroform extractives in Distilled water	Fill boiling water and then cool to 100 °F (38°C)	0.1	N.D.	N.D.	N.D.	<0.1
Chloroform extractives in 8% Ethanol	Fill boiling water and then cool to 100 °F (38°C)	0.1	N.D.	N.D.	N.D.	<0.1
Chloroform extractives in 50% Ethanol	Fill boiling water and then cool to 100 °F (38°C)	0.1	N.D.	N.D.	N.D.	<0.1
Chloroform extractives in N-heptane	120 °F(49°C), 15 mins	0.1	N.D.	N.D.	N.D.	<0.1
Conclusion			Pass	Pass	Pass	-

TEST ITEMS	TEST CONDITIONS	MDL [mg/in ²]	RESULT [mg/in ²]		CFR Specification [mg/in ²]
			008	010	
Chloroform extractives in Distilled water	Fill boiling water and then cool to 100 °F (38°C)	0.1	N.D.	N.D.	<0.1
Chloroform extractives in 8% Ethanol	Fill boiling water and then cool to 100 °F (38°C)	0.1	N.D.	N.D.	<0.1
Chloroform extractives in 50% Ethanol	Fill boiling water and then cool to 100 °F (38°C)	0.1	N.D.	N.D.	<0.1
Chloroform extractives in N-heptane	120 °F(49°C), 15 mins	0.1	N.D.	N.D.	<0.1
Conclusion			Pass	Pass	-

Note:

1. "mg/in²" denotes milligram per square inch
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 177.2420

-End of Test Report-

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