

# Test Report

No.: 68.431.22.4444.01

Date: 2022-10-31



Greater China

**Applicant:** Spector & CO  
**Address:** /  
**Product Name:** 12 OZ/360 ML DOUBLE WALL VACCUM INSULATED STAINLESS STEEL MUG  
**End Use:** DRINKWARE  
**Item No.:** DW406  
**Style No.:** MEAN MUGGIN  
**Supplier:** USS149  
**Country of Origin:** CHINA  
**Country of Destination:** CANADA & U.S.A.  
**Receipt Date of Sample:** 2022-10-18  
**Date of Testing:** From 2022-10-18 to 2022-10-28  
**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. Canadian Surface Coating Materials Regulations SOR/2016-193 - Total Mercury Content Test                | Pass         |
| 8. Canadian Surface Coating Materials Regulations SOR/2016-193 - Total Lead Content Test                   | 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. FDA CFR Title 21 Part 177.1210   | Pass         |
| 14. FDA CFR Title 21 Part 177.1640   | Pass         |
| 15. Total Chromium   | Pass         |

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

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

Prepared by:

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Steven Shu

Jojo Zhao  
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  - "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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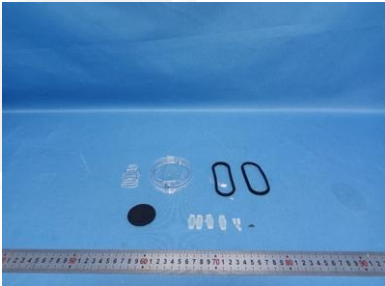

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Description of Tested Subject:

| Sample | Description                                    | Photo  |
|--------|--|--|
| A      | Whole product                                  |    |
| 001    | Silvery 201 stainless steel metal (Outer wall) |   |
| 002    | Black silicone (Sealing ring)                  |  |
| 003    | Translucent white silicone (Stopper)           |  |
| 004    | Silvery 304 stainless steel metal (Inner wall) |  |
| 005    | Transparent PS plastic (Lid & sliding cover)   |  |

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|            |  |  |
|------------|--|--|
| <p>006</p> | <p>Black silicone w/ adhesive backing<br/>(Bottom pad)</p> |    |
| <p>007</p> | <p>Black coating (Outer wall)</p>                          |    |
| <p>008</p> | <p>Dull silvery coating (Outer wall)</p>                   |   |
| <p>009</p> | <p>Rose golden coating (Outer wall)</p>                    |  |
| <p>010</p> | <p>White coating (Outer wall)</p>                          |  |

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| T. No | Sample | Description                                     |
|-------|--------|---|
| T1    | 001    | Silvery 201 stainless steel metal (Outer wall)  |
| T2    | 002    | Black silicone (Sealing ring)                   |
| T3    | 003    | Translucent white silicone (Stopper)            |
| T4    | 004    | Silvery 304 stainless steel metal (Inner wall)  |
| T5    | 005    | Transparent PS plastic (Lid & sliding cover)    |
| T6    | 006    | Black silicone w/ adhesive backing (Bottom pad) |
| T7    | 007    | Black coating (Outer wall)                      |
| T8    | 008    | Dull silvery coating (Outer wall)               |
| T9    | 009    | Rose golden coating (Outer wall)                |
| T10   | 010    | White coating (Outer wall)                      |



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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 |
|--------|-------|-----|----------------|-----------|------------|
| 007    | mg/kg | 10  | 75             | N.D.      | Pass       |
| 008    | mg/kg | 10  | 75             | N.D.      | Pass       |
| 009    | mg/kg | 10  | 75             | N.D.      | Pass       |
| 010    | 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     | mg/kg | 10  | 75             | N.D.      | Pass       |
| 002+003 | mg/kg | 10  | 75             | N.D.      | Pass       |
| 004     | mg/kg | 10  | 75             | N.D.      | Pass       |
| 005     | mg/kg | 10  | 75             | N.D.      | Pass       |
| 006     | 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 |
|--------|-------|-----|----------------|-----------|------------|
| 007    | mg/kg | 10  | 90             | N.D.      | Pass       |
| 008    | mg/kg | 10  | 90             | N.D.      | Pass       |
| 009    | mg/kg | 10  | 90             | N.D.      | Pass       |
| 010    | 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     | mg/kg | 10  | 100            | N.D.      | Pass       |
| 002+003 | mg/kg | 10  | 100            | N.D.      | Pass       |
| 004     | mg/kg | 10  | 100            | N.D.      | Pass       |
| 005     | mg/kg | 10  | 100            | N.D.      | Pass       |
| 006     | 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)   |             |
|--------------------------------------|----------------------------|------|-------|----------------|-------------|-------------|
|                                      |                            |      |       |                | 002+003     | 005         |
| 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 ,<br>68515-48-0 | %    | 0.005 | 0.1            | N.D.        | N.D.        |
| Di-isodecyl phthalate, (DIDP)        | 26761-40-0 ,<br>68515-49-1 | %    | 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   | Client's Limit | Result(s) |      |
|--------------------------------------|----------------------------|------|-------|----------------|-----------|------|
|                                      |                            |      |       |                | 006       | 007  |
| 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            | 0.006     | 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 ,<br>68515-48-0 | %    | 0.005 | 0.1            | N.D.      | N.D. |

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|                               |                            |   |       |     |             |             |
|-------------------------------|----------------------------|---|-------|-----|-------------|-------------|
| Di-isodecyl phthalate, (DIDP) | 26761-40-0 ,<br>68515-49-1 | % | 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   | Client's Limit | Result(s)   |             |
|--------------------------------------|----------------------------|------|-------|----------------|-------------|-------------|
|                                      |                            |      |       |                | 008         | 009         |
| 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 ,<br>68515-48-0 | %    | 0.005 | 0.1            | N.D.        | N.D.        |
| Di-isodecyl phthalate, (DIDP)        | 26761-40-0 ,<br>68515-49-1 | %    | 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   | Client's Limit | Result(s) |
|--------------------------------------|----------|------|-------|----------------|-----------|
|                                      |          |      |       |                | 010       |
| Diethyl phthalate(DEP)               | 84-66-2  | %    | 0.005 | 0.1            | N.D.      |
| Benzyl butyl phthalate, (BBP)        | 85-68-7  | %    | 0.005 | 0.1            | N.D.      |
| Diisobutylphthalate, (DIBP)          | 84-69-5  | %    | 0.005 | 0.1            | N.D.      |
| Dibutyl phthalate, (DBP)             | 84-74-2  | %    | 0.005 | 0.1            | N.D.      |
| Di-n-hexyl phthalate (DnHP)          | 84-75-3  | %    | 0.005 | 0.1            | N.D.      |
| Dicyclohexyl phthalate (DCHP)        | 84-61-7  | %    | 0.005 | 0.1            | N.D.      |
| Bis (2-ethylhexyl) phthalate, (DEHP) | 117-81-7 | %    | 0.005 | 0.1            | N.D.      |
| Di-n-octyl phthalate, (DNOP)         | 117-84-0 | %    | 0.005 | 0.1            | N.D.      |

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|                               |                            |   |       |     |             |
|-------------------------------|----------------------------|---|-------|-----|-------------|
| Di-isononyl phthalate, (DINP) | 28553-12-0 ,<br>68515-48-0 | % | 0.005 | 0.1 | N.D.        |
| Di-isodecyl phthalate, (DIDP) | 26761-40-0 ,<br>68515-49-1 | % | 0.005 | 0.1 | N.D.        |
| Di-n-pentyl phthalates (DnPP) | 131-18-0                   | % | 0.005 | 0.1 | N.D.        |
| <b>Conclusion</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  | Limit | Result(s)           |
|-------------------|-------|------|-------|---------------------|
|                   |       |      |       | 001                 |
| Tungsten(W)       | mg/kg | 10.0 | -     | N.D.                |
| <b>Conclusion</b> |       |      |       | <b>Report As Is</b> |

**7. Canadian Surface Coating Materials Regulations SOR/2016-193 - Total Mercury Content Test**

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

| Sample | Unit  | MDL | Limit | Result(s) | Conclusion |
|--------|-------|-----|-------|-----------|------------|
| 007    | mg/kg | 10  | 10.0  | N.D.      | Pass       |
| 008    | mg/kg | 10  | 10.0  | N.D.      | Pass       |
| 009    | mg/kg | 10  | 10.0  | N.D.      | Pass       |
| 010    | mg/kg | 10  | 10.0  | N.D.      | Pass       |

**8. Canadian Surface Coating Materials Regulations SOR/2016-193 - Total Lead Content Test**

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

| Sample | Unit  | MDL | Limit | Result(s) | Conclusion |
|--------|-------|-----|-------|-----------|------------|
| 007    | mg/kg | 10  | 90    | N.D.      | Pass       |
| 008    | mg/kg | 10  | 90    | N.D.      | Pass       |
| 009    | mg/kg | 10  | 90    | N.D.      | Pass       |
| 010    | 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    | N.D.      | Pass       |

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|         |       |    |    |      |      |
|---------|-------|----|----|------|------|
| 002+003 | mg/kg | 10 | 90 | N.D. | Pass |
| 004     | mg/kg | 10 | 90 | N.D. | Pass |
| 005     | mg/kg | 10 | 90 | N.D. | Pass |
| 006     | mg/kg | 10 | 90 | N.D. | Pass |
| 007     | mg/kg | 10 | 90 | N.D. | Pass |
| 008     | mg/kg | 10 | 90 | N.D. | Pass |
| 009     | mg/kg | 10 | 90 | N.D. | Pass |
| 010     | 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   |
|--------|-------|-----|-------|-----------|--------------|
| 001    | mg/kg | 5   | -     | 11306.957 | Report As Is |
| 004    | mg/kg | 5   | -     | 83552.253 | Report As Is |

## 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)   |             |
|--------------------------------------|----------------------------|------|-------|-------|-------------|-------------|
|                                      |                            |      |       |       | 002+003     | 005         |
| 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 ,<br>68515-48-0 | %    | 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) |      |
|-------------------------------|---------|------|-------|-------|-----------|------|
|                               |         |      |       |       | 006       | 007  |
| Benzyl butyl phthalate, (BBP) | 85-68-7 | %    | 0.005 | 0.1   | N.D.      | N.D. |

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|                                      |                            |   |       |     |             |             |
|--------------------------------------|----------------------------|---|-------|-----|-------------|-------------|
| Diisobutylphthalate, (DIBP)          | 84-69-5                    | % | 0.005 | 0.1 | N.D.        | N.D.        |
| Dibutyl phthalate, (DBP)             | 84-74-2                    | % | 0.005 | 0.1 | 0.006       | 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 ,<br>68515-48-0 | % | 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)   |             |
|--------------------------------------|----------------------------|------|-------|-------|-------------|-------------|
|                                      |                            |      |       |       | 008         | 009         |
| 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 ,<br>68515-48-0 | %    | 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) |
|--------------------------------------|----------|------|-------|-------|-----------|
|                                      |          |      |       |       | 010       |
| Benzyl butyl phthalate, (BBP)        | 85-68-7  | %    | 0.005 | 0.1   | N.D.      |
| Diisobutylphthalate, (DIBP)          | 84-69-5  | %    | 0.005 | 0.1   | N.D.      |
| Dibutyl phthalate, (DBP)             | 84-74-2  | %    | 0.005 | 0.1   | N.D.      |
| Di-n-hexyl phthalate (DnHP)          | 84-75-3  | %    | 0.005 | 0.1   | N.D.      |
| Dicyclohexyl phthalate (DCHP)        | 84-61-7  | %    | 0.005 | 0.1   | N.D.      |
| Bis (2-ethylhexyl) phthalate, (DEHP) | 117-81-7 | %    | 0.005 | 0.1   | N.D.      |

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|                               |                            |   |       |     |             |
|-------------------------------|----------------------------|---|-------|-----|-------------|
| Di-isononyl phthalate, (DINP) | 28553-12-0 ,<br>68515-48-0 | % | 0.005 | 0.1 | N.D.        |
| Di-n-pentyl phthalates (DnPP) | 131-18-0                   | % | 0.005 | 0.1 | N.D.        |
| <b>Conclusion</b>             |                            |   |       |     | <b>Pass</b> |

## 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)   |             |
|--------------------------------------|----------------------------|------|-------|----------------|-------------|-------------|
|                                      |                            |      |       |                | 002+003     | 005         |
| 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 ,<br>68515-49-1 | %    | 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 ,<br>68515-48-0 | %    | 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)   |             |
|--------------------------------------|----------------------------|------|-------|----------------|-------------|-------------|
|                                      |                            |      |       |                | 006         | 007         |
| Dibutyl phthalate, (DBP)             | 84-74-2                    | %    | 0.005 | 0.1            | 0.006       | 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 ,<br>68515-49-1 | %    | 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 ,<br>68515-48-0 | %    | 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) |      |
|--------------------------|---------|------|-------|----------------|-----------|------|
|                          |         |      |       |                | 008       | 009  |
| Dibutyl phthalate, (DBP) | 84-74-2 | %    | 0.005 | 0.1            | N.D.      | N.D. |

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|                                      |                            |   |       |     |             |             |
|--------------------------------------|----------------------------|---|-------|-----|-------------|-------------|
| 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 ,<br>68515-49-1 | % | 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 ,<br>68515-48-0 | % | 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)   |
|--------------------------------------|----------------------------|------|-------|----------------|-------------|
|                                      |                            |      |       |                | 010         |
| Dibutyl phthalate, (DBP)             | 84-74-2                    | %    | 0.005 | 0.1            | N.D.        |
| Bis (2-ethylhexyl) phthalate, (DEHP) | 117-81-7                   | %    | 0.005 | 0.1            | N.D.        |
| Benzyl butyl phthalate, (BBP)        | 85-68-7                    | %    | 0.005 | 0.1            | N.D.        |
| Di-isodecyl phthalate, (DIDP)        | 26761-40-0 ,<br>68515-49-1 | %    | 0.005 | 0.1            | N.D.        |
| Di-n-hexyl phthalate (DNHP)          | 84-75-3                    | %    | 0.005 | 0.1            | N.D.        |
| Di-isononyl phthalate, (DINP)        | 28553-12-0 ,<br>68515-48-0 | %    | 0.005 | 0.1            | N.D.        |
| <b>Conclusion</b>                    |                            |      |       |                | <b>Pass</b> |

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13. 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     | RESULT [ppm] |            | CFR Specification [ppm] |
|---|---------------------|--------------|------------|-------------------------|
|   |                     | SAMPLE 002   | SAMPLE 003 |                         |
| Chloroform extractives in Distilled water | 100 °C for 0.5 Hour | <10.0        | <10.0      | 50                      |
| Chloroform extractives in 8% Ethanol      | 100 °C for 0.5 Hour | <10.0        | <10.0      | 50                      |
| Chloroform extractives in N-heptane       | 49 °C for 0.5 Hour  | 16.6         | <10.0      | 250                     |
| <b>Conclusion</b>                         |                     | Pass         | Pass       | -                       |

Note:

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

14. 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 [%] |
|----------------------------------|-------------|-----------------------|
|                                  | SAMPLE 005  |                       |
| Residual styrene monomer Content | <0.01       | 1.0                   |
| <b>Conclusion</b>                | 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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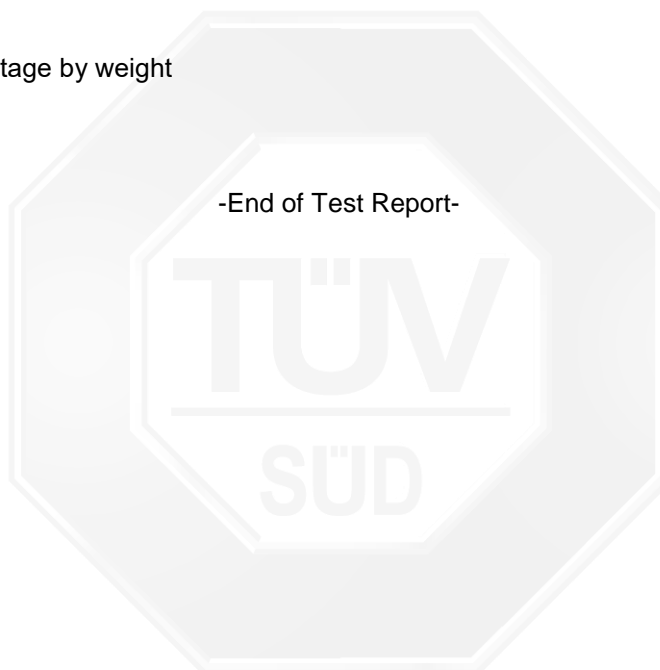
**15. Total Chromium Content**

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 004       |
| Total Chromium(Cr) | 17.70            |
| Limit              | Not less than 16 |
| Conclusion         | Pass             |

Note:

- “%” denotes percentage by weight



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