Test Report No.: 70.431.20.10959.01R1

Dated: 2020-05-22

Greater China

Applicant:	PLANETARY DESIGN
Address:	PO BOX 1011 BONNER, MT, USA 59823
Product Name:	Airscape galvanized container
End Use:	Coffee Container
Style No.:	AA 17 07
Order No.:	25439
Item No.:	645771002619
Buyer:	Rattler Holdings dba Planetary Design
Manufacturer:	Chaoyi Craftwork Manufactory
Country of Origin:	China
Country of Destination:	USA, Germany
Receipt Date of Sample:	2020-03-27, 2020-05-18
Date of Testing:	2020-03-27 to 2020-05-11, 2020-05-19 to 2020-05-22
Sample Submitted:	The sample(s) was (were) submitted by applicant and identified.
Test Result:	Refer to the data listed in following pages

Remark: This report supersedes the previous report 70.431.20.10959.01 dated on 2020-05-11.

Test Item	Conclusion
1. Total Lead Content Requirement in Annex XVII, Item 63 of the REACH Regulation (EC) No 1907/2006 with its Amendments	Pass
2. Total Lead Content Test in accessible substrate materials in accordance with Consumer Product Safety Improvement Act of 2008 Section 101	Pass
3. Total Lead Content Test in paint/similar surface coating material in accordance with Consumer Product Safety Improvement Act of 2008 Section 101	Pass
4. US California Proposition 65-Lead Content	Pass
5. US California Proposition 65-Phthalates Content	Pass
6. Regulated Phthalates in Accordance with Consumer Product Safety Improvement Act (CPSIA), Final Rule, 16 CFR 1307	Pass
7. Phthalates Content in Annex XVII Items 51 and 52 of the REACH Regulation(EC) No 1907/2006 with its Amendments	Pass
8. Total Bisphenol A (BPA) Content	Pass*
9. EU-Res AP (2004) 1-Overall Migration Test	Pass
10. EU-Regulation (EU) No. 10/2011-Overall Migration Test	Pass
11. EU-Res AP (2004) 5-Overall Migration Test	Pass
12. EU-Regulation (EU) No. 10/2011-Specific Migration of Primary Aromatic Amine	Pass
13. EU-Regulation (EU) No. 10/2011-Specific Migration of Heavy Metals	Pass
14. EU-CM/Res (2013)9-Extractable Heavy Metals	Pass
15. Germany-German Food & Feed Acts LFGB Section 30 and BfR Recommendation - Overall Migration	Pass
16. Germany-German Food & Feed Acts LFGB Section 30 and BfR Recommendation- Specific Migration of Primary Aromatic Amine	Pass

Test Item	Conclusion
17. Germany-German Food & Feed Acts LFGB Section 30 and BfR Recommendation-Specific Migration of Heavy Metals	Pass
18. Germany-German Food & Feed Acts LFGB Section 30 and Guideline of the EDQM Technical Document on metal and alloys -Extractable Heavy Metals	Pass
19. Test for compliance with the selected requirement(s) in US FDA 21 CFR Part 177.1520	Pass
20. Test for compliance with the selected requirement(s) in US FDA 21 CFR Part 177.1210	Pass
21. Test for compliance with the selected requirement(s) in US FDA Generally Recognized As Safe (GRAS)	Pass

Remarks: 1. MDL = Method Detection Limit
2. ND = Not Detected (<MDL)
3. <= Less than
4. 1 mg/kg = 1 ppm = 0.0001%
5. *= Conclusion was drawn according to client's specification
6. mg/dm^2 denotes milligram per square decimeter

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

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Unless otherwise agreed upon, Pass or Fail verdicts are given based on the measured values without any considerations of measurement uncertainties.
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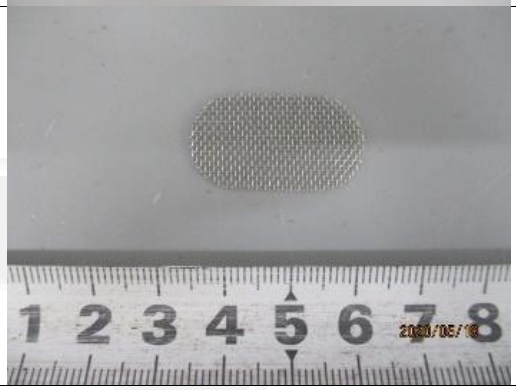
Description of the Tested Subject

Sample	Description	Photo
A	Airscape galvanized container	
002	Black PP plastic (inner lid)	
003	Black silicone ring	
005	Silver metal (filter screen)	

Sample	Description	Photo
006	Black PP plastic (inner lid)	
007	Silver metal (filter screen)	

Specimen Description	
001	Black coating (body)
002	Black PP plastic (inner lid)
003	Black silicone ring
004	Silver metal without coating
005	Silver metal (filter screen)
006	Black PP plastic (inner lid)
007	Silver metal (filter screen)

Test Results

1. Total Lead Content Requirement in Annex XVII, Item 63 of the REACH Regulation (EC) No 1907/2006 with its Amendments

Test with reference to in house method, determination by ICP-OES.

Sample	Unit	MDL	Limit	Result(s)	Conclusion
001	mg/kg	10	500	29	**Pass**
002	mg/kg	10	500	<10	**Pass**
003	mg/kg	10	500	<10	**Pass**
004	mg/kg	10	500	<10	**Pass**
005	mg/kg	10	500	<10	**Pass**

2. Total Lead Content Test in accessible substrate materials in accordance with Consumer Product Safety Improvement Act of 2008 Section 101

Test with reference to CPSC-CH-E1001-08.3, CPSC-CH-E1002-08.3 and determination by ICP-OES

Sample	Unit	MDL	Limit	Result(s)	Conclusion
002	mg/kg	10	100	<10.0	**Pass**
003	mg/kg	10	100	<10.0	**Pass**
004	mg/kg	10	100	<10.0	**Pass**
005	mg/kg	10	100	<10.0	**Pass**

3. Total Lead Content Test in paint/similar surface coating material in accordance with Consumer Product Safety Improvement Act of 2008 Section 101

Test with reference to CPSC-CH-E1003-09.1 and determination by ICP-OES

Sample	Unit	MDL	Limit	Result(s)	Conclusion
001	mg/kg	10	90	29	**Pass**

4. US California Proposition 65-Lead Content

Test with reference to CPSC-CH-E1001-08.3, CPSC-CH-E1002-08.3, CPSC-CH-E1003-09.1 and determination by ICP-OES

Sample	Unit	MDL	Limit	Result(s)	Conclusion
001	mg/kg	10	90	29	**Pass**
002	mg/kg	10	90	<10	**Pass**
003	mg/kg	10	90	<10	**Pass**
004	mg/kg	10	90	<10	**Pass**
005	mg/kg	10	90	<10	**Pass**

Remark: The limit is referred to the requirement as stated in Settlement Agreement Ref. 2016-00578

5. US California Proposition 65-Phthalates Content

Test with reference to CPSC-CH-C1001-09.4, determination by GC-MS.

Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					001	**002**
Bis (2-ethylhexyl) phthalate (DEHP)	117-81-7	mg/kg	50	<1000	<50	<50
Dibutyl phthalate (DBP)	84-74-2	mg/kg	50	<1000	<50	<50
Benzyl butyl phthalate (BBP)	85-68-7	mg/kg	50	<1000	<50	<50
Di-isodecyl phthalate (DIDP)	26761-40-0 , 68515-49-1	mg/kg	50	<1000	<50	<50
Di-n-hexylphthalate (DnHP)	84-75-3	mg/kg	50	<1000	<50	<50
Di-isononyl phthalate (DINP)	28553-12-0 , 68515-48-0	mg/kg	50	<1000	<50	<50
Conclusion					**Pass**	**Pass**

Parameter	CAS No.	Unit	MDL	Limit	Result(s)
					003
Bis (2-ethylhexyl) phthalate (DEHP)	117-81-7	mg/kg	50	<1000	<50
Dibutyl phthalate (DBP)	84-74-2	mg/kg	50	<1000	<50
Benzyl butyl phthalate (BBP)	85-68-7	mg/kg	50	<1000	<50
Di-isodecyl phthalate (DIDP)	26761-40-0 , 68515-49-1	mg/kg	50	<1000	<50
Di-n-hexylphthalate (DnHP)	84-75-3	mg/kg	50	<1000	<50
Di-isononyl phthalate (DINP)	28553-12-0 , 68515-48-0	mg/kg	50	<1000	<50
Conclusion					**Pass**

Remark: The limit is referred to the requirement as stated in County of Santa Clara Case No. 115CV283507

6. Regulated Phthalates in Accordance with Consumer Product Safety Improvement Act (CPSIA), Final Rule, 16 CFR 1307

Test with reference to CPSC-CH-C1001-09.4, determination by GC-MS.

Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					001	002
Bis (2-ethylhexyl) phthalate (DEHP)	117-81-7	mg/kg	50	<1000	<50	<50
Dibutyl phthalate (DBP)	84-74-2	mg/kg	50	<1000	<50	<50
Benzyl butyl phthalate (BBP)	85-68-7	mg/kg	50	<1000	<50	<50
Di-isononyl phthalate (DINP)	28553-12-0 , 68515-48-0	mg/kg	50	<1000	<50	<50
Diisobutylphthalate (DIBP)	84-69-5	mg/kg	50	<1000	<50	<50
Di-n-hexyl phthalate (DHEXP)	84-75-3	mg/kg	50	<1000	<50	<50
Di-n-pentyl phthalate (DPENP)	131-18-0	mg/kg	50	<1000	<50	<50
Dicyclohexyl phthalate (DCHP)	84-61-7	mg/kg	50	<1000	<50	<50
Conclusion					**Pass**	**Pass**

Parameter	CAS No.	Unit	MDL	Limit	Result(s)
					003
Bis (2-ethylhexyl) phthalate (DEHP)	117-81-7	mg/kg	50	<1000	<50
Dibutyl phthalate (DBP)	84-74-2	mg/kg	50	<1000	<50
Benzyl butyl phthalate (BBP)	85-68-7	mg/kg	50	<1000	<50
Di-isononyl phthalate (DINP)	28553-12-0 , 68515-48-0	mg/kg	50	<1000	<50
Diisobutylphthalate (DIBP)	84-69-5	mg/kg	50	<1000	<50
Di-n-hexyl phthalate (DHEXP)	84-75-3	mg/kg	50	<1000	<50
Di-n-pentyl phthalate (DPENP)	131-18-0	mg/kg	50	<1000	<50
Dicyclohexyl phthalate (DCHP)	84-61-7	mg/kg	50	<1000	<50
Conclusion					**Pass**

7. Phthalates Content in Annex XVII Items 51 and 52 of the REACH Regulation(EC) No 1907/2006 with its Amendments

Test with reference to in house method, solvent extraction and determination by GC-MS.

Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					001	002
Bis (2-ethylhexyl) phthalate, DEHP	117-81-7	%	0.005	-	<0.005	<0.005
Dibutyl phthalate, DBP	84-74-2	%	0.005	-	<0.005	<0.005
Benzyl butyl phthalate, BBP	85-68-7	%	0.005	-	<0.005	<0.005
Diisobutylphthalate, DIBP	84-69-5	%	0.005	-	<0.005	<0.005
Sum of DBP, BBP, DEHP, DIBP	-	%	0.005	**<0.1**	**<0.005**	**<0.005**
Di-isononyl phthalate, DINP	28553-12-0 , 68515-48-0	%	0.005	-	<0.005	<0.005
Di-isodecyl phthalate, DIDP	26761-40-0 , 68515-49-1	%	0.005	-	<0.005	<0.005
Di-n-octyl phthalate, DNOP	117-84-0	%	0.005	-	<0.005	<0.005
Sum of DINP, DIDP, DNOP	-	%	0.005	**<0.1**	**<0.005**	**<0.005**
Conclusion					**Pass**	**Pass**

Parameter	CAS No.	Unit	MDL	Limit	Result(s)
					003
Bis (2-ethylhexyl) phthalate, DEHP	117-81-7	%	0.005	-	<0.005
Dibutyl phthalate, DBP	84-74-2	%	0.005	-	<0.005
Benzyl butyl phthalate, BBP	85-68-7	%	0.005	-	<0.005
Diisobutylphthalate, DIBP	84-69-5	%	0.005	-	<0.005
Sum of DBP, BBP, DEHP, DIBP	-	%	0.005	**<0.1**	**<0.005**
Di-isononyl phthalate, DINP	28553-12-0 , 68515-48-0	%	0.005	-	<0.005
Di-isodecyl phthalate, DIDP	26761-40-0 , 68515-49-1	%	0.005	-	<0.005
Di-n-octyl phthalate, DNOP	117-84-0	%	0.005	-	<0.005
Sum of DINP, DIDP, DNOP	-	%	0.005	**<0.1**	**<0.005**
Conclusion					**Pass**

8. Total Bisphenol A (BPA) Content

Test withreference to in house method, determination by LC-MS-MS

Compound	CAS No.	Unit	MDL	Limit	Result
					002
Bisphenol A	80-05-7	mg/kg	0.1	ND	ND
Conclusion					**Pass**

Compound	CAS No.	Unit	MDL	Limit	Result
					003
Bisphenol A	80-05-7	mg/kg	0.1	ND	ND
Conclusion					**Pass**

Remark: Limit was according to client's requirement

9. EU-Res AP (2004) 1-Overall Migration Test

- With reference to EN 1186: Part 1 and Part 13
- Sample 001 Migration ratio: 8.0g/2.00dm^2

Simulant(s) Used	Test Condition	Result(s) [mg/dm^2]	Maximum Permissible Limit [mg/dm^2]	Conclusion
		001*		
MPPO	40°C for 10 days	<3.0	10	**Pass**

Note: 1. Test condition and simulant were specified by client
2. * denotes the data comes from the third extraction solution

10. EU-Regulation (EU) No. 10/2011-Overall Migration Test

- With reference to EN 1186: Part 1 and Part 13
- Sample 002 Migration ratio: 4.8g/1.20dm^2

Simulant(s) Used	Test Condition	Overall Migration Result(s) [mg/dm^2]	Maximum Permissible Limit [mg/dm^2]	Conclusion
		002*		
MPPO	40°C for 10 days	<3.0	10	**Pass**

Note: 1. * denotes the data comes from the third extraction solution
2. Test condition and simulant were specified by client

11. EU-Res AP (2004) 5-Overall Migration Test

- With reference to EN 1186: Part 1 and Part 13
- Sample 003 Migration ratio: 3.0g/0.76dm^2

Simulant(s) Used	Test Condition	Result(s) [mg/dm^2]	Maximum Permissible Limit [mg/dm^2]	Conclusion
		003*		
MPPO	40°C for 10 days	<3.0	10	**Pass**

Note: 1. Test condition and simulant were specified by client
2. * denotes the data comes from the third extraction solution

12. EU-Regulation (EU) No. 10/2011-Specific Migration of Primary Aromatic Amine

- With reference to EN 13130-1:2004, followed by Kunststoffe im Lebensmittelverkehr, Book 2, Teil B II,XXI
- Test condition: 10% Ethanol, 40°C for 10 days
- Sample 002 Migration ratio: 100ml/0.60dm^2

Test Item(s)	Result(s) [mg/kg]	Method Detection Limit [mg/kg]	Maximum Permissible Limit [mg/kg]	Conclusion
	002			
Specific migration of primary aromatic amines	ND	0.01	0.01	**Pass**

Note: 1. * denotes the data comes from the third extraction solution
2. Test condition and simulant were specified by client

13. EU-Regulation (EU) No. 10/2011-Specific Migration of Heavy Metals

- With reference to EN 13130-1:2004, followed by ICP-MS.
- Test condition: 10% Ethanol, 40°C for 10 days
- Sample 002 Migration ratio: 100ml/0.60dm^2

Test Item(s)	Result(s) [mg/kg]	Limit [mg/kg]	Conclusion
	002*		
Aluminium	<0.1	1	**Pass**
Barium	<0.1	1	**Pass**
Cobalt	<0.05	0.05	**Pass**
Copper	<0.5	5	**Pass**
Iron	<1.0	48	**Pass**
Lithium	<0.1	0.6	**Pass**
Manganese	<0.05	0.6	**Pass**
Zinc	<1.0	5	**Pass**
Nickel	<0.01	0.02	**Pass**

Note: 1. Test condition and simulant were specified by client
2. * denotes the data comes from the third extraction solution

14. EU-CM/Res (2013)9-Extractable Heavy Metals

- Test with reference to EN 13130-1:2004.
- Test condition: Artificial tap water, 40°C for 10 days

Test Item(s)	Result(s) [mg/kg]		Maximum Permissible Limit [mg/kg]		Conclusion
	004				
	3rd migration	1st + 2nd migration	3rd migration	1st + 2nd migration	-
Silver	<0.01	<0.02	0.08	0.56	**Pass**
Aluminium	<0.5	<1.0	5	35	**Pass**
Cobalt	<0.01	<0.02	0.02	0.14	**Pass**
Chromium	<0.02	<0.04	0.25	1.75	**Pass**
Copper	<0.2	<0.4	4	28	**Pass**
Iron	<1.0	<2.0	40	280	**Pass**
Magnesium	<0.05	<0.1	--	--	--
Manganese	<0.2	<0.4	1.8	12.6	**Pass**
Molybdenum	<0.01	<0.02	0.12	0.84	**Pass**
Nickel	<0.02	<0.04	0.14	0.98	**Pass**
Tin	<1.0	<2.0	100	700	**Pass**
Titanium	<0.05	<0.1	--	--	--
Vanadium	<0.01	<0.02	0.01	0.07	**Pass**
Zinc	<0.5	<1.0	5	35	**Pass**
Arsenic	<0.001	<0.002	0.002	0.014	**Pass**
Barium	<0.1	0.9	1.2	8.4	**Pass**
Beryllium	<0.01	<0.02	0.01	0.07	**Pass**
Cadmium	<0.001	<0.002	0.005	0.035	**Pass**
Mercury	<0.001	<0.002	0.003	0.021	**Pass**
Lithium	<0.01	<0.02	0.048	0.336	**Pass**
Lead	<0.01	<0.02	0.01	0.07	**Pass**
Antimony	<0.01	<0.02	0.04	0.28	**Pass**
Thallium	<0.0001	<0.0002	0.0001	0.0007	**Pass**

Test Item(s)	Result(s) [mg/kg]		Maximum Permissible Limit [mg/kg]		Conclusion
	005				
	3rd migration	1st + 2nd migration	3rd migration	1st + 2nd migration	-
Silver	<0.01	<0.02	0.08	0.56	**Pass**
Aluminium	<0.5	<1.0	5	35	**Pass**
Cobalt	<0.01	<0.02	0.02	0.14	**Pass**
Chromium	<0.02	<0.04	0.25	1.75	**Pass**
Copper	<0.2	<0.4	4	28	**Pass**
Iron	<1.0	<2.0	40	280	**Pass**
Magnesium	<0.05	<0.1	--	--	--
Manganese	<0.2	<0.4	1.8	12.6	**Pass**
Molybdenum	<0.01	<0.02	0.12	0.84	**Pass**
Nickel	<0.02	<0.04	0.14	0.98	**Pass**
Tin	<1.0	<2.0	100	700	**Pass**
Titanium	<0.05	<0.1	--	--	--
Vanadium	<0.01	<0.02	0.01	0.07	**Pass**
Zinc	<0.5	<1.0	5	35	**Pass**
Arsenic	<0.001	<0.002	0.002	0.014	**Pass**
Barium	<0.1	<0.2	1.2	8.4	**Pass**
Beryllium	<0.01	<0.02	0.01	0.07	**Pass**
Cadmium	<0.001	<0.002	0.005	0.035	**Pass**
Mercury	<0.001	<0.002	0.003	0.021	**Pass**
Lithium	<0.01	<0.02	0.048	0.336	**Pass**
Lead	<0.01	<0.02	0.01	0.07	**Pass**
Antimony	<0.01	<0.02	0.04	0.28	**Pass**
Thallium	<0.0001	<0.0002	0.0001	0.0007	**Pass**

Note: Test condition and simulant were specified by client

15. Germany-German Food & Feed Acts LFGB Section 30 and BfR Recommendation-Overall Migration

- With reference to EN 1186: Part 1 and Part 13
- Sample 001 Migration ratio: 8.0g/2.00dm^2
- Sample 002 Migration ratio: 4.8g/1.20dm^2

Simulant(s) Used	Test Condition	Overall Migration Result(s) [mg/dm^2]	Maximum Permissible Limit [mg/dm^2]	Conclusion
		001*		
MPPO	40°C for 10 days	<3.0	10	**Pass**

Simulant(s) Used	Test Condition	Overall Migration Result(s) [mg/dm^2]	Maximum Permissible Limit [mg/dm^2]	Conclusion
		002*		
MPPO	40°C for 10 days	<3.0	10	**Pass**

Note: 1. * denotes the data comes from the third extraction solution
2. Test condition and simulant were specified by client

16. Germany-German Food & Feed Acts LFGB Section 30 and BfR Recommendation -Specific Migration of Primary Aromatic Amine

- With reference to EN 13130-1:2004, followed by Kunststoffe im Lebensmittelverkehr, Book 2, Teil B II,XXI
- Test condition: 10% Ethanol, 40°C for 10 days
- Sample 002 Migration ratio: 100ml/0.60dm^2

Test Item(s)	Result(s) [mg/kg]	Method Detection Limit [mg/kg]	Maximum Permissible Limit [mg/kg]	Conclusion
	002			
Specific migration of primary aromatic amines	ND	0.01	ND	**Pass**

Note: Test condition and simulant were specified by client.

17. Germany-German Food & Feed Acts LFGB Section 30 and BfR Recommendation-Specific Migration of Heavy Metals

- With reference to EN 13130-1:2004, followed by ICP-MS.
- Test condition: 10% Ethanol, 40°C for 10 days
- Sample 002 Migration ratio: 100ml/0.60dm^2

Test Item(s)	Result(s) [mg/kg]	Limit [mg/kg]	Conclusion
	002*		
Aluminium	<0.1	1	**Pass**
Barium	<0.1	1	**Pass**
Cobalt	<0.05	0.05	**Pass**
Copper	<0.5	5	**Pass**
Iron	<1.0	48	**Pass**
Lithium	<0.1	0.6	**Pass**
Manganese	<0.05	0.6	**Pass**
Zinc	<1.0	5	**Pass**
Nickel	<0.01	0.02	**Pass**

Note: 1. Test condition and simulant were specified by client
2. * denotes the data comes from the third extraction solution

18. Germany-German Food & Feed Acts LFGB Section 30 and Guideline of the EDQM Technical Document on metal and alloys -Extractable Heavy Metals

- Test with reference to EN 13130-1:2004.
- Test condition: Artificial tap water, 40°C for 10 days

Test Item(s)	Result(s) [mg/kg]		Maximum Permissible Limit [mg/kg]		Conclusion
	004				
	3rd migration	1st + 2nd migration	3rd migration	1st + 2nd migration	-
Silver	<0.01	<0.02	0.08	0.56	**Pass**
Aluminium	<0.5	<1.0	5	35	**Pass**
Cobalt	<0.01	<0.02	0.02	0.14	**Pass**
Chromium	<0.02	<0.04	0.25	1.75	**Pass**
Copper	<0.2	<0.4	4	28	**Pass**
Iron	<1.0	<2.0	40	280	**Pass**
Magnesium	<0.05	<0.1	--	--	--
Manganese	<0.2	<0.4	1.8	12.6	**Pass**
Molybdenum	<0.01	<0.02	0.12	0.84	**Pass**
Nickel	<0.02	<0.04	0.14	0.98	**Pass**
Tin	<1.0	<2.0	100	700	**Pass**
Titanium	<0.05	<0.1	--	--	--
Vanadium	<0.01	<0.02	0.01	0.07	**Pass**
Zinc	<0.5	<1.0	5	35	**Pass**
Arsenic	<0.001	<0.002	0.002	0.014	**Pass**
Barium	<0.1	0.9	1.2	8.4	**Pass**
Beryllium	<0.01	<0.02	0.01	0.07	**Pass**
Cadmium	<0.001	<0.002	0.005	0.035	**Pass**
Mercury	<0.001	<0.002	0.003	0.021	**Pass**
Lithium	<0.01	<0.02	0.048	0.336	**Pass**
Lead	<0.01	<0.02	0.01	0.07	**Pass**
Antimony	<0.01	<0.02	0.04	0.28	**Pass**
Thallium	<0.0001	<0.0002	0.0001	0.0007	**Pass**

Test Item(s)	Result(s) [mg/kg]		Maximum Permissible Limit [mg/kg]		Conclusion
	005				
	3rd migration	1st + 2nd migration	3rd migration	1st + 2nd migration	-
Silver	<0.01	<0.02	0.08	0.56	**Pass**
Aluminium	<0.5	<1.0	5	35	**Pass**
Cobalt	<0.01	<0.02	0.02	0.14	**Pass**
Chromium	<0.02	<0.04	0.25	1.75	**Pass**
Copper	<0.2	<0.4	4	28	**Pass**
Iron	<1.0	<2.0	40	280	**Pass**
Magnesium	<0.05	<0.1	--	--	--
Manganese	<0.2	<0.4	1.8	12.6	**Pass**
Molybdenum	<0.01	<0.02	0.12	0.84	**Pass**
Nickel	<0.02	<0.04	0.14	0.98	**Pass**
Tin	<1.0	<2.0	100	700	**Pass**
Titanium	<0.05	<0.1	--	--	--
Vanadium	<0.01	<0.02	0.01	0.07	**Pass**
Zinc	<0.5	<1.0	5	35	**Pass**
Arsenic	<0.001	<0.002	0.002	0.014	**Pass**
Barium	<0.1	<0.2	1.2	8.4	**Pass**
Beryllium	<0.01	<0.02	0.01	0.07	**Pass**
Cadmium	<0.001	<0.002	0.005	0.035	**Pass**
Mercury	<0.001	<0.002	0.003	0.021	**Pass**
Lithium	<0.01	<0.02	0.048	0.336	**Pass**
Lead	<0.01	<0.02	0.01	0.07	**Pass**
Antimony	<0.01	<0.02	0.04	0.28	**Pass**
Thallium	<0.0001	<0.0002	0.0001	0.0007	**Pass**

Note: Test condition and simulant were specified by client

19. Test for compliance with the selected requirement(s) in US FDA 21 CFR Part 177.1520

Test with reference to US FDA 21 CFR Part 177.1520.

Test items	Result(s)	Maximum Permissible Limit	Conclusion
	006		
Density at 23ºC (g/cc)	0.883	0.880 – 0.913	**Pass**
Melting Point (ºC)	166.4	160 -180	**Pass**
n-Hexane extractives at 50 ºC w/w, (%)	0.8	6.4	**Pass**
Xylene extractives at 25 ºC w/w, (%)	3.6	9.8	**Pass**

20. Test for compliance with the selected requirement(s) in US FDA 21CFR Part 177.1210

Test with reference to US FDA CFR 21 Part 177.1210.

Simulant used	Test Condition	Limit [mg/kg]	Result(s) [mg/kg]	Conclusion
			003	
Chloroform extractive in Distilled water	120°F, 24 hours	50	<1	**Pass**

21. Test for compliance with the selected requirement(s) in US FDA Generally Recognized As Safe (GRAS)

Test with reference to acid digestion, determination by ICP-OES.

Test Item	Permissible Limit [%]	Result(s) [%]	Conclusion
		007	
Total Chromium content	≥16	16.65	**Pass**

- End of Test Report -