Test Report

Report No.: AGC10153200701-001 Date: Jul.09, 2020 Page 1of 15

Applicant: Favorite Logistics B.V.

Address: Het Eek 1, 4004 LM, Tiel, The Netherlands

Test site: 6/F., Building 2, Sanwei Chaxi Industrial Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China

Report on the submitted samples said to be:

Sample Name	:	Stainless steel bottle
Model	:	XG-2626
Item No.	:	6536
Supplier	:	
Supplier Address	:	
Country of origin	:	CHINA
Country of destination	:	EUROPE
Sample Receiving Date	:	Jul.03, 2020
Testing Period	:	Jul.03, 2020 to Jul.09, 2020

Test Requested:	:	Please refer to next page(s).
Test Method	:	Please refer to next page(s).
Test Result	:	Please refer to next page(s).

Approved by:

Liangdan, Jessie.Liang

Technical Director

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Test Report

Test Requested:	**Conclusion**
1. As specified by client, to determine the Cadmium(Cd)content in the submitted sample(s) with reference to entry 23, Annex XVII of the REACH Regulation (EC) No 1907/2006.	Pass
2.As specified by client, to determine the Polycyclic Aromatic Hydrocarbons (PAHs) content in the submitted sample(s) with reference to entry 50, Annex XVII of the REACH Regulation (EC) No 1907/2006.	Pass
3. As specified by client, to determine the phthalates content in the submitted sample(s) with reference to entry 51 and its amendment (EU)2018/2005& entry 52, Annex XVII of the REACH Regulation (EC) No 1907/2006 and Amendment Regulation (EC) No 552/2009.	Pass
4. As specified by client, to test sample with reference to German Food, Articles of Daily Use and Feed Code of September, 2005(LFGB), Section 30 & 31, Regulation 1935/2004/EC, Regulation (EU) No.10/2011 for:	
- Sensory analysis	Pass
5. As specified by client, to test sample with reference to German Food, Articles of Daily Use and Feed Code of September, 2005(LFGB), Section 30 & 31, Technical Guide on Metals and alloys used in food contact materials of Council of Europe Resolution CM/Res(2013)9for:	
- Specific migration of heavy metal from metal and alloys(21 heavy metals)	Pass
6. As specified by client, to test sample with reference to German Food, Articles of Daily Use and Feed Code of September, 2005(LFGB), Section 30 & 31, Regulation 1935/2004/EC, Regulation (EU) No.10/2011, (EU)2016/1416&(EU)2017/752&(EU)2018/213 for:	
- Color Migration (3% (w/v) Acetic acid, 10% ethanol)	Pass
- Overall Migration (3% (w/v) Acetic acid, 10% ethanol)	Pass
- Total Lead and Cadmium content	Pass
- Specific Migration of Heavy metals	Pass
- Migration of BPA	Pass
7. As specified by client, to test sample with reference to German Food, Articles of Daily Use and Feed Code of September, 2005(LFGB), Section 30 & 31, BfR recommendation XⅤ, Regulation 1935/2004/EC, Regulation (EU) No.10/2011&(EU)2018/213 for:	
-Extractable components (distilled water, 3% (w/v) Acetic acid, 10% ethanol)	Pass
- Overall Migration (distilled water, 3% (w/v) Acetic acid, 10% ethanol)	Pass
-Volatile Organic Matter	Pass
-Total Lead, Cadmium content	Pass
- Migration of BPA	Pass

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Test Result(s):

1.Test Result(s) of Cd:

Unit: mg/kg

Test item(s)	Test Method/ Equipment	MDL	Result(s)				Limit
			1-1	1-2	1-3	1-4	
Cadmium (Cd)	IEC 62321-5:2013 ICP-OES	10	N.D.	N.D.	N.D.	N.D.	100
Conclusion		/	Pass	Pass	Pass	Pass	/

Unit: mg/kg

Test item(s)	Test Method/ Equipment	MDL	Result(s)			Limit
			1-5	1-6	1-7	
Cadmium (Cd)	IEC 62321-5:2013 ICP-OES	10	N.D.	N.D.	N.D.	100
Conclusion		/	Pass	Pass	Pass	/

Note: 1. MDL=Method Detection Limit

2. N.D.=Not Detected(less than method detection limit)

3. As specified by client, only test the designated sample

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2.Test Result(s) of Polycyclic Aromatic Hydrocarbons (PAHs)

Unit: mg/kg

Test Item(s)	Test Method /Equipment	MDL	Result(s)		Limit
			1-2	1-3	
Benzo[a]anthracene (BaA)	AfPS GS 2014:01 PAK GC-MS	0.1	N.D.	N.D.	1
Chrysene (CHR)		0.1	N.D.	N.D.	1
Benzo[b]fluoranthene (BbFA)		0.1	N.D.	N.D.	1
Benzo[k]fluoranthene (BkFA)		0.1	N.D.	N.D.	1
Benzo[j]fluoranthene(BjFA)		0.1	N.D.	N.D.	1
Benzo[a]pyrene (BaP)		0.1	N.D.	N.D.	1
Benzo[e]pyrene(BeP)		0.1	N.D.	N.D.	1
Dibenzo[a,h]anthracene (DBAhA)		0.1	N.D.	N.D.	1
Sum of 8 PAHs		—	N.D.	N.D.	—
Conclusion		/	**Pass**	**Pass**	/

Note: 1. MDL=Method Detection Limit

2. N.D.=Not Detected(less than method detection limit)

3. "—"=Not regulated

4. As specified by client, only test the designated sample.

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3.Test Result(s) of phthalates content

Unit: %, w/w

Test Item(s)	Test Method/ Equipment	MDL	Result(s)		Limit
			1-2	1-3	
Dibutyl phthalate (DBP)	EN 14372:2004 GC-MS	0.01	N.D.	N.D.	0.1
Butylbenzyl phthalate (BBP)		0.01	N.D.	N.D.	0.1
Di- (2-ethylhexyl) phthalate (DEHP)		0.01	N.D.	N.D.	0.1
Diisobutyl phthalate (DIBP)		0.01	N.D.	N.D.	0.1
Sum of DBP+BBP+DEHP+DIBP		—	N.D.	N.D.	0.1
Di-n-octyl phthalate (DNOP)		0.01	N.D.	N.D.	-
Di-isononyl phthalate (DINP)		0.01	N.D.	N.D.	
Di-isodecyl phthalate (DIDP)		0.01	N.D.	N.D.	
Sum of DNOP+DINP+DIDP		—	N.D.	N.D.	0.1
Conclusion		/	**Pass**	**Pass**	/

Note: 1. 0.1%,w/w =1000mg/kg

2. MDL=method detection limit
3. N.D.=not detected（less than method detection limit）
4. “—” =Not regulated
5. As specified by client, only test the designated sample

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German Food(LFGB)

4 Sensory analysis

Test method: with reference to DIN 10955:2004 for sensory analysis

Test Item(s)	Test Result(s)		Maximum Permissible Limit
	Stainless steel bottle(Silvery)		
	A	B	
Sensorial examination odour(point scale)	0	0	2.5
Sensorial examination taste(point scale)	0	0	2.5

Test Item(s)	Test Result(s)		Maximum Permissible Limit
	Stainless steel bottle(Blue)		
	A	B	
Sensorial examination odour(point scale)	0	0	2.5
Sensorial examination taste(point scale)	0	0	2.5

Test Item(s)	Test Result(s)		Maximum Permissible Limit
	Stainless steel bottle(Black)		
	A	B	
Sensorial examination odour(point scale)	0	0	2.5
Sensorial examination taste(point scale)	0	0	2.5

Remark

Odour / Taste	Grade
No difference from natural sample	0
Just barely perceivable difference	1
Weak but definable difference	2
Clearly perceivable difference	3
Strong difference	4

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For metal

5. Test result ofExtractable heavy metal

Unit: mg/kg

Test Item(s)	Test condition/ Equipment	MDL	Test Result(s)	Limit
			1st + 2nd extractives	
			1-1	
Barium (Ba)	Artificial tap water, 70°C, 2h ICP-OES	0.1	N.D.	8.4
Copper (Cu)		0.1	N.D.	28
Iron (Fe)		0.1	N.D.	280
Tin (Sn)		0.1	N.D.	700
Chromium (Cr)		0.01	N.D.	1.75
Manganese (Mn)		0.1	N.D.	12.6
Zinc (Zn)		0.1	N.D.	35
Aluminum (Al)		0.1	N.D.	35
Lithium (Li)		0.01	N.D.	0.336
Beryllium (Be)		0.005	N.D.	0.07
Vanadium (V)		0.005	N.D.	0.07
Nickel (Ni)		0.01	N.D.	0.98
Cobalt (Co)		0.01	N.D.	0.14
Arsenic (As)		0.002	N.D.	0.014
Molybdenum (Mo)		0.01	N.D.	0.84
Silver (Ag)		0.01	N.D.	0.56
Cadmium (Cd)		0.002	N.D.	0.035
Antimony (Sb)		0.01	N.D.	0.28
Mercury (Hg)		0.002	N.D.	0.021
Thallium (Tl)		0.0001	N.D.	0.0007
Lead (Pb)		0.01	N.D.	0.07
Conclusion		/	**Pass**	/

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Test Report

Unit: mg/kg

Test Item(s)	Test condition/ Equipment	MDL	Test Result(s)	Limit
			3rd extractives	
			1-1	
Barium (Ba)	Artificial tap water, 70°C, 2h ICP-OES	0.1	N.D.	1.2
Copper (Cu)		0.1	N.D.	4
Iron (Fe)		0.1	N.D.	40
Tin (Sn)		0.1	N.D.	100
Chromium (Cr)		0.01	N.D.	0.25
Manganese (Mn)		0.1	N.D.	1.8
Zinc (Zn)		0.1	N.D.	5
Aluminum (Al)		0.1	N.D.	5
Lithium (Li)		0.01	N.D.	0.048
Beryllium (Be)		0.005	N.D.	0.01
Vanadium (V)		0.005	N.D.	0.01
Nickel (Ni)		0.01	N.D.	0.14
Cobalt (Co)		0.01	N.D.	0.02
Arsenic (As)		0.002	N.D.	0.002
Molybdenum (Mo)		0.01	N.D.	0.12
Silver (Ag)		0.01	N.D.	0.08
Cadmium (Cd)		0.002	N.D.	0.005
Antimony (Sb)		0.01	N.D.	0.04
Mercury (Hg)		0.002	N.D.	0.003
Thallium (Tl)		0.0001	N.D.	0.0001
Lead (Pb)		0.01	N.D.	0.01
Conclusion		/	**Pass**	/

Note:

1. N.D.=Not Detected(less than method detection limit)
2. MDL= method detection limit

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6.1 Test Result(s) of Color migration

Test method: with reference to Kunststoffe im Lebensmittelverkehr, Part B II IX

Test Item(s)	Test Condition	Result	Limit
		1-2	
Color migration	3%(w/v) Acetic acid, 70℃, 2h	Not recognized	Not recognized
	10%(v/v) Ethanol, 70℃, 2h	Not recognized	Not recognized
Conclusion		**Pass**	/

Note:

1. Recognized=Dissolution of color is/are observed when comparing with blank leaching solution(s).
2. Not Recognized=Dissolution of color is/are NOT observed when comparing with blank leaching solution(s).

6.2 Test Result(s) of Overall Migration

Unit: mg/dm^2

Test Solution	Test condition	MDL	Test Result(s)	Limit
			1-2	
3%(w/v)Acetic acid	70°C, 2h	5	N.D.	10
10% (v/v) Ethanol		5	N.D.	10
Conclusion	/	/	**Pass**	/

Note: 1. N.D.=not detected (less than method detection limit)
2. MDL=method detection limit

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6.3 Test Result(s) of Total Lead and Cadmium content

Unit: mg/kg

Test Item	Test Method/ Equipment	MDL	Test Result(s)	Limit
			1-2	
Lead (Pb)	EPA 3052-1996& EPA 6010D-2018 ICP-OES	2	N.D.	Absent
Cadmium (Cd)		2	N.D.	Absent
Conclusion	/	/	**Pass**	/

Note: -MDL=method detection limit
-N.D.=not detected (less than method detection limit)

6.4 Test Result(s) of Specific Migration of Heavy metals

Unit: mg/kg

Test Item(s)	Test Condition/ Equipment	MDL	Test Result(s)	Limit
			3% (w/v) Acetic acid	
			1-2	
Aluminum (Al)	70°C, 2h / ICP-OES	0.5	N.D.	1
Barium (Ba)		0.25	N.D.	1
Cobalt (Co)		0.01	N.D.	0.05
Copper (Cu)		0.25	N.D.	5
Iron (Fe)		0.25	N.D.	48
Lithium (Li)		0.5	N.D.	0.6
Manganese (Mn)		0.25	N.D.	0.6
Zinc (Zn)		0.5	N.D.	5
Nickel(Ni)		0.01	N.D.	0.02
Conclusion		/	**Pass**	/

Note: -MDL=method detection limit
-N.D.=not detected (less than method detection limit)

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6.5 Test result of Migration of BPA

Unit: mg/kg

Test Item(s)	Test condition/ Equipment	MDL	Result(s)	Limit
			3% (w/v) Acetic acid	
			1-2	
Migration of BPA	70°C, 2h / LC-MS-MS	0.02	N.D.	0.05
Conclusion	/	/	**Pass**	/

Note: 1. N.D.=not detected (less than method detection limit)
2. MDL=method detection limit

7.1 Test result of Extractable components

Test method: with reference to 61st Communication on testing plastics in Bundesgesundheitsbl 46(2003)362

Test Item(s)	Test Condition	Result	Limit
		1-3	
Color migration	3%(w/v) Acetic acid, 70℃, 2h	Not recognized	Not recognized
	10%(v/v) Ethanol, 70℃, 2h	Not recognized	Not recognized
	Water, 70℃, 2h	Not recognized	Not recognized
Conclusion		**Pass**	/

Note: -MDL=method detection limit
-N.D.=not detected (less than method detection limit)
-0.1%,w/w =1000mg/kg

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7.2 Test Result(s) of Overall Migration

Unit: %,w/w

Test Solution	Test Condition	MDL	Test Result(s)	Limit
			1-3	
Water	70°C, 2h	0.1	N.D.	0.5
10%(v/v) Ethanol	70°C, 2h	0.1	N.D.	0.5
3% (w/v) Acetic acid	70°C, 2h	0.1	N.D.	0.5
Conclusion	/	/	**Pass**	/

Note: 1. N.D.=not detected (less than method detection limit)
2. MDL=method detection limit

7.3 Test result of Volatile Organic Matter

Test method: with reference to LFGB BfR Part II section XV, May 2003 and LFGB section 35 B80.30 1(EG)

Unit: %,w/w

Test item(s)	Test Condition	MDL	Result(s)	Limit
			1-3	
Volatile Organic Matter	200°C, 4h	0.1	0.48	0.5
Conclusion		/	**Pass**	/

Note: -MDL=method detection limit
-N.D.=not detected (less than method detection limit)
-0.1%,w/w =1000mg/kg

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7.4 Test result of Total Lead, Cadmium content

Unit: mg/kg

Test Item	Test Method/ Equipment	MDL	Test Result(s)	Limit
			1-3	
Lead (Pb)	EPA 3052-1996& EPA 6010D-2018 ICP-OES	2	N.D.	Absent
Cadmium (Cd)		2	N.D.	Absent
Conclusion	/	/	**Pass**	/

Note: -MDL=method detection limit
-N.D.=not detected (less than method detection limit)

7.5 Test result of Migration of BPA

Unit: mg/kg

Test Item(s)	Test condition/ Equipment	MDL	Result(s)	Limit
			3% (w/v) Acetic acid	
			1-3	
Migration of BPA	70°C, 2h/ LC-MS-MS	0.02	N.D.	0.05
Conclusion	/	/	**Pass**	/

Note: 1. N.D.=not detected (less than method detection limit)
2. MDL=method detection limit

Sample Description

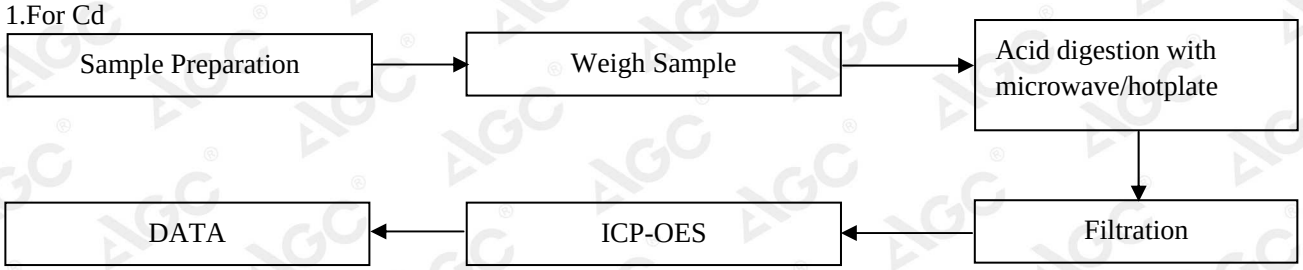
1	Stainless steel bottle
1-1	Stainless steel bottle body
1-2	Black lid（PP）
1-3	Silicone ring
1-4	Black coating
1-5	Blue coating
1-6	Key ring
1-7	Metal buckle

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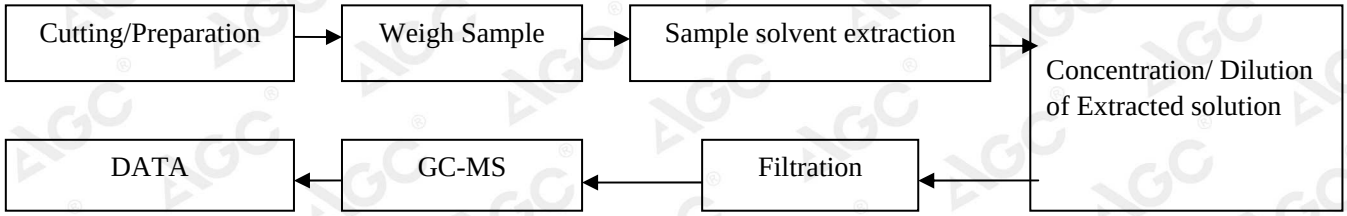
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Test Flow Chart

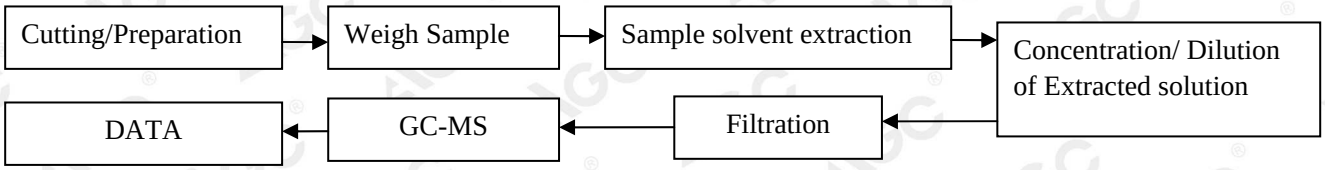
1.For Cd



2. For PAHs



3. For phthalates



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Attestation of Global Compliance Std. & Tech.

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The photo of the sample



AGC10153200701-001

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*** End of Report***

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