TEST REPORT

LAB NO.	**:**	**(9323)320-0636**
DATE	**:**	**Dec 22, 2023**
PAGE	**:**	**1 OF 16**

APPLICANT	**:**	**YONGKANG BEIV HOUSEWARES CO.,LTD** ECONOMIC DEVELOPMENT ZONE, YONGKANG, JINHUA, ZHEJIANG, CHINA
CONTACT PERSON	**:**	/
DATE OF SUBMISSION	**:**	Nov 16, 2023
TEST PERIOD	**:**	Nov 16, 2023 to Dec 04, 2023
SAMPLE DESCRIPTION	**:**	STAINLESS STEEL WATER BOTTLE /TUMBLER
Color:		/
Style no. / Model no.:		/
P.O. No.:		/
Country of Origin:		/
Country of Destination:		/
MANUFACTURER	**:**	/

RW

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SUMMARY OF TEST RESULTS

TEST REQUESTED	CONCLUSION	REMARK
Overall Migration Test for Plastic Materials in Contact with Foodstuffs –Commission Regulation (EU) 2020/1245 of 2 September 2020 amending and correcting Regulation (EU) No 10/2011	PASS	
Peroxides Value for Plastic Materials in Contact with Foodstuffs – § 30 and 31 LFGB and BfR Recommendation	PASS	
Total Chromium, Hafnium, Vanadium and Zirconium Content for Plastic Materials in Contact with Foodstuffs – § 30 and 31 LFGB and BfR Recommendation	PASS	
Specific Migration of Heavy Metals for Plastic Materials in Contact with Foodstuffs –Commission Regulation (EU) 2020/1245 of 2 September 2020 amending and correcting Regulation (EU) No 10/2011	PASS	
Extractable Matter Content for Silicone in Contact with Foodstuffs – § 30 and 31 LFGB and BfR Recommendation	PASS	
Sensory Test (Odour and Taste) for Materials in Contact with Foodstuffs – EC No. 1935/2004 and § 30 and 31 LFGB and BfR Recommendation	PASS	
Migration of Heavy Metals Contents for Metal in Contact with Foodstuffs	PASS	
Volatile Organic Matter Content for Plastic Materials in Contact with Foodstuffs – § 30 and 31 LFGB and BfR Recommendation	PASS	
Phthalate Contents for Plastic Materials in Contact with Foodstuffs – Commission Regulation (EU) 2020/1245 of 2 September 2020 amending and correcting Regulation (EU) No 10/2011	PASS	
Specific Migration of Phthalates for Plastic Materials in Contact with Foodstuffs –Commission Regulation (EU) 2023/1442 of 11 July 2023 amending and correcting Regulation (EU) No 10/2011	PASS	

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SAMPLE DESCRIPTION ASSIGNED BY LABORATORY

ITEM	ITEM DESCRIPTION
1	White silicone (seal ring)
2	Black plastic (cover)(PP)
3	Silvery metal (bottle)(SUS)

BUREAU VERITAS CONSUMER PRODUCTS SERVICES (GUANGZHOU) CO., LTD

KENNY WANG
OPERATION MANAGER

REMARK

If there are questions or concerns on this report, please contact the following persons:

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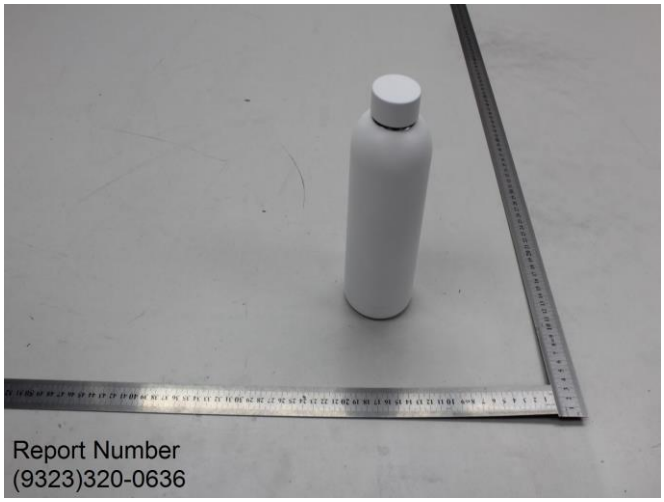
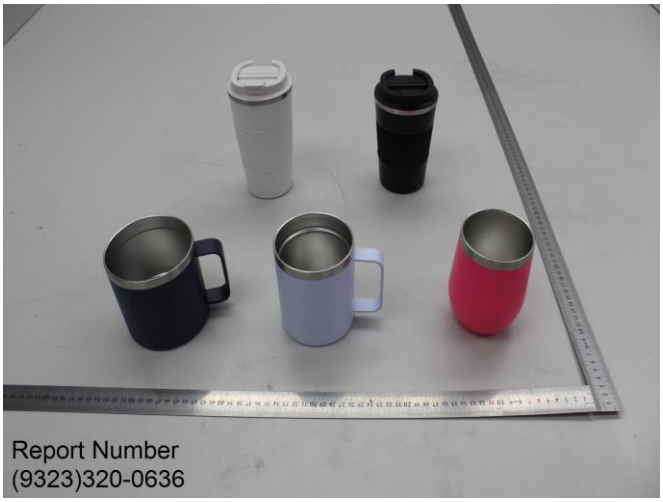
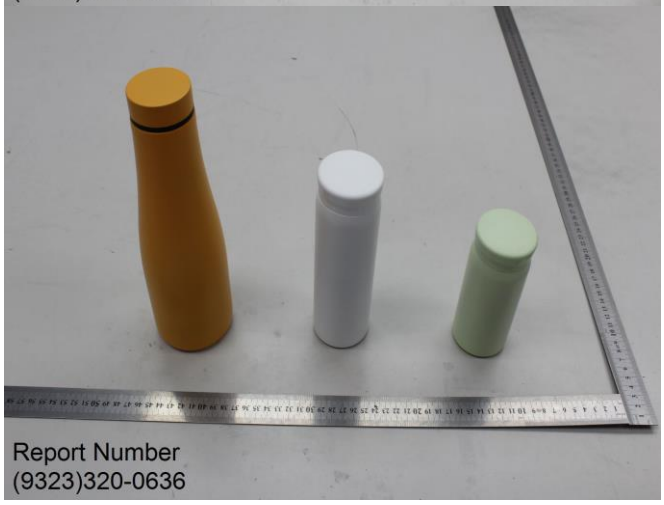
Photo of the Submitted Sample







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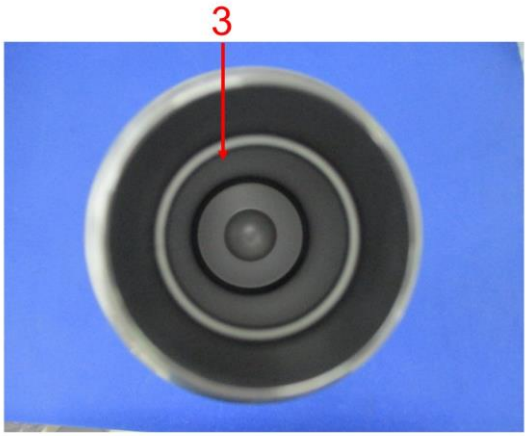
Photograph of test item(s)



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TEST RESULT

***Overall Migration Test for Plastic Materials in Contact with Foodstuffs –Commission Regulation (EU) 2020/1245 of 2 September 2020 amending and correcting Regulation (EU) No 10/2011**

Test Condition: 3% Acetic acid,
50% ethanol
Preheat to at least 70oC before filling and leave it closed for 24 h

Simulant Used	Unit	Result 2			Maximum Allowable Limit	Analytical Tolerance
		1st Migrate	2nd Migrate	3rd Migrate		
Food contact surface area	dm^2	1.4			-	-
Volume of stimulant used	mL	223			-	-
3% Acetic acid	mg/dm^2	<5	<5	<5	10	+2
50% ethanol	mg/dm^2	<5	<5	<5		
Conclusion	-	PASS			-	-

Note: "<" = less than
mg/dm^2 = milligram per square decimeter
mg/kg = milligram per kilogram

Method: EN 1186-1: 2002;
EN 1186-1: 2002 and CEN/TS 14235:2002 (For coated metal substrate)

Remark: 1) The migration test is carried out according to EU regulation No. 10/2011 and the corresponding regulatory statutes.

2) For article intended for repeated use, the migration tests are carried out three times on the same test sample and the third test result is shown in result table.

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TEST RESULT

***Peroxides Value for Plastic Materials in Contact with Foodstuffs – § 30 and 31 LFGB and BfR Recommendation**

Parameter	Result		Maximum Allowable Limit
	1	2	
Peroxides	Absent	Absent	Absent
Conclusion	PASS	PASS	-

Method: European Pharmacopeia 5.0, Ph. Eur. Method 2.5.5.

Remark: The limit refers to BfR Recommendation III.
The limit refers to BfR Recommendation V.

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TEST RESULT

Total Chromium, Hafnium, Vanadium and Zirconium Content for Plastic Materials in Contact with Foodstuffs – § 30 and 31 LFGB and BfR Recommendation

Parameter	Unit	Result	Maximum Allowable Limit
		2*	
Total Chromium (Cr)	mg/kg	<2	10
Total Hafnium (Hf)	mg/kg	<10	100
Total Vanadium (V)	mg/kg	<2	20
Total Zirconium (Zr)	mg/kg	<10	100
Conclusion	-	PASS	-

Note: "<" = less than
mg/kg = milligram per kilogram

Method: Acid digestion and analysis by Inductively Coupled Argon Plasma Spectrometer (ICP).

Remark: The limit refers to BfR Recommendation III.

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TEST RESULT

***Specific Migration of Heavy Metals for Plastic Materials in Contact with Foodstuffs –Commission Regulation (EU) 2020/1245 of 2 September 2020 amending and correcting Regulation (EU) No 10/2011**

Test Condition: Artificial tap water,
Fill the flask at boiling temperature and leave it closed for 24 hrs (do NOT open).

Parameter	Simulant Used	Unit	Result			Maximum Allowable Limit
			2			
			1st Migrate	2nd Migrate	3rd Migrate	
Food contact surface area	-	dm^2	1.4			-
Volume of stimulant used	-	mL	223			-
Barium (Ba)	Artificial tap water	mg/kg	<0.05	<0.05	<0.05	1
Cobalt (Co)	Artificial tap water	mg/kg	<0.01	<0.01	<0.01	0.05
Copper (Cu)	Artificial tap water	mg/kg	<0.04	<0.04	<0.04	5
Iron (Fe)	Artificial tap water	mg/kg	0.0623	0.0450	<0.04	48
Lithium (Li)	Artificial tap water	mg/kg	<0.01	<0.01	<0.01	0.6
Manganese (Mn)	Artificial tap water	mg/kg	<0.01	<0.01	<0.01	0.6
Zinc (Zn)	Artificial tap water	mg/kg	<0.3	<0.3	<0.3	5
Aluminum (Al)	Artificial tap water	mg/kg	<0.1	<0.1	<0.1	1
Nickel (Ni)	Artificial tap water	mg/kg	<0.01	<0.01	<0.01	0.02
Antimony (Sb)	Artificial tap water	mg/kg	<0.01	<0.01	<0.01	0.04
Arsenic (As)	Artificial tap water	mg/kg	<0.01	<0.01	<0.01	Not detected
Cadmium (Cd)	Artificial tap water	mg/kg	<0.002	<0.002	<0.002	Not detected
Chromium (Cr)	Artificial tap water	mg/kg	<0.01	<0.01	<0.01	Not detected
Europium (Eu)	Artificial tap water	mg/kg	<0.01	<0.01	<0.01	0.05
Gadolinium (Gd)	Artificial tap water	mg/kg	<0.01	<0.01	<0.01	0.05
Lanthanum (La)	Artificial tap water	mg/kg	<0.01	<0.01	<0.01	0.05
Lead (Pb)	Artificial tap water	mg/kg	<0.01	<0.01	<0.01	Not detected
Mercury (Hg)	Artificial tap water	mg/kg	<0.01	<0.01	<0.01	Not detected
Terbium (Tb)	Artificial tap water	mg/kg	<0.01	<0.01	<0.01	0.05
Sum of Europium (Eu), Gadolinium (Gd), Lanthanum (La), and/or Terbium (Tb)	Artificial tap water	mg/kg	<0.01	<0.01	<0.01	0.05
Conclusion	-	-	PASS			-

Note: "<" = less than
mg/kg = milligram per kilogram

Method: EN 13130-1: 2004 and analysis by Inductively Coupled Argon Plasma Spectrometer (ICP).
Remark: 1) The migration test is carried out according to EU regulation No. 10/2011 and the corresponding regulatory statutes.
2) For article intended for repeated use, the migration tests are carried out three times on the same test sample and three test results are shown in result table.

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TEST RESULT

Extractable Matter Content for Silicone in Contact with Foodstuffs – § 30 and 31 LFGB and BfR Recommendation

Parameter	Simulant	Unit	Result	Maximum Allowable Limit
			1*	
Extractable Matter	Distilled water	% (w/w)	< 0.05	0.5
Conclusion		-	PASS	-

Note: "<" = less than

Method: Gravimetric method.

Remark: The limit refers to BfR Recommendation XV.

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TEST RESULT

***Sensory Test (Odour and Taste) for Materials in Contact with Foodstuffs – EC No. 1935/2004 and § 30 and 31 LFGB and BfR Recommendation**

Parameter	Result	Maximum Allowable Limit
	1	
Odour	0	2.5 Scale
Taste transfer into foodstuff through simulant, Mineral water	0	2.5 Scale
Conclusion	PASS	-

Parameter	Result	Maximum Allowable Limit
	2	
Odour	0	2.5 Scale
Taste transfer into foodstuff through simulant, Mineral water	0	2.5 Scale
Conclusion	PASS	-

Parameter	Result	Maximum Allowable Limit
	3	
Odour	0	2.5 Scale
Taste transfer into foodstuff through simulant, Mineral water	0	2.5 Scale
Conclusion	PASS	-

Note: Scale: 0 = no perceptible off-odour (or taste transfer);
1 = off-odour (or taste transfer) just perceptible (but still difficult to define);
2 = slight off-odour (or taste transfer);
3 = distinct off-odour (or taste transfer);
4 = strong off-odour (or taste transfer)

Method: DIN 10955: 2004-06

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TEST RESULT

*Migration of Heavy Metals Contents for Metal in Contact with Foodstuffs

Test Condition: Artificial tap water,
Fill the flask at boiling temperature and leave it closed for 24 hrs (do NOT open).

Parameter	Unit	Result			Seven Times of Maximum Specific Release Limit(s) (SRLs)[a, b]
		3			
		1st Migrate	2nd Migrate	Sum of 1st & 2nd Migrate[b]	
Envelope volume/ Filling volume	cm^3	4.6	4.6	-	-
Volume of stimulant used	mL	400	400	-	-
Aluminum (Al)	mg/kg	<0.1	<0.1	<0.1	35
Antimony (Sb)	mg/kg	<0.004	<0.004	<0.004	0.28
Chromium (Cr)	mg/kg	<0.1	<0.1	<0.1	1.75
Cobalt (Co)	mg/kg	<0.005	<0.005	<0.005	0.14
Copper (Cu)	mg/kg	<0.5	<0.5	<0.5	28
Iron (Fe)	mg/kg	<5	<5	<5	280
Magnesium (Mg)	mg/kg	<0.5	<0.5	<0.5	-
Manganese (Mn)	mg/kg	<0.1	<0.1	<0.1	12.6
Molybdenum (Mo)	mg/kg	<0.01	<0.01	<0.01	0.84
Nickel (Ni)	mg/kg	<0.02	<0.02	<0.02	0.98
Silver (Ag)	mg/kg	<0.01	<0.01	<0.01	0.56
Tin (Sn)	mg/kg	<5	<5	<5	700
Titanium (Ti)	mg/kg	<0.5	<0.5	<0.5	-
Vanadium (V)	mg/kg	<0.01	<0.01	<0.01	0.07
Zinc (Zn)	mg/kg	<5	<5	<5	35
Arsenic (As)	mg/kg	<0.002	<0.002	<0.002	0.014
Barium (Ba)	mg/kg	<0.1	<0.1	<0.1	8.4
Beryllium (Be)	mg/kg	<0.001	<0.001	<0.001	0.07
Cadmium (Cd)	mg/kg	<0.001	<0.001	<0.001	0.035
Lead (Pb)	mg/kg	<0.002	<0.002	<0.002	0.07
Lithium (Li)	mg/kg	<0.01	<0.01	<0.01	0.336
Mercury (Hg)	mg/kg	<0.003	<0.003	<0.003	0.021
Thallium (Tl)	mg/kg	<0.0001	<0.0001	<0.0001	0.0007
Conclusion	-	-	-	PASS	-

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Parameter	Unit	Result	Maximum Specific Release Limit(s) (SRLs)[a]
		3	
		3rd Migrate	
Envelope volume/ Filling volume	cm^3	4.6	-
Volume of stimulant used	mL	400	-
Aluminum (Al)	mg/kg	<0.1	5
Antimony (Sb)	mg/kg	<0.004	0.04
Chromium (Cr)	mg/kg	<0.1	0.250
Cobalt (Co)	mg/kg	<0.005	0.02
Copper (Cu)	mg/kg	<0.5	4
Iron (Fe)	mg/kg	<5	40
Magnesium (Mg)	mg/kg	<0.5	-
Manganese (Mn)	mg/kg	<0.1	1.8
Molybdenum (Mo)	mg/kg	<0.01	0.12
Nickel (Ni)	mg/kg	<0.02	0.14
Silver (Ag)	mg/kg	<0.01	0.08
Tin (Sn)	mg/kg	<5	100
Titanium (Ti)	mg/kg	<0.5	-
Vanadium (V)	mg/kg	<0.01	0.01
Zinc (Zn)	mg/kg	<5	5
Arsenic (As)	mg/kg	<0.002	0.002
Barium (Ba)	mg/kg	<0.1	1.2
Beryllium (Be)	mg/kg	<0.001	0.01
Cadmium (Cd)	mg/kg	<0.001	0.005
Lead (Pb)	mg/kg	<0.002	0.01
Lithium (Li)	mg/kg	<0.01	0.048
Mercury (Hg)	mg/kg	<0.003	0.003
Thallium (Tl)	mg/kg	<0.0001	0.0001
Conclusion	-	PASS	-

Note: "<" = less than
mg/kg = milligram per kilogram

Method: With reference to Metals and Alloys used in Food Contact Materials and articles - A Practical Guide to Manufacturers and Regulators (2013 1st Edition) published by European Directorate for the Quality of Medicines and HealthCare (EDQM), Chapter 3.

Remark: 1) [a] denotes as this (these) maximum specific release limit(s) was (were) referenced from Metals and Alloys used in Food Contact Materials and articles - A Practical Guide to Manufacturers and Regulators (2013 1st Edition) published by European Directorate for the Quality of Medicines and HealthCare (EDQM), Chapter 1, Article 4, Tables 1 and 2.
2) Appropriate test condition(s) was (were) selected according to Guidelines on Testing Conditions for Articles in Contact with Foodstuffs (With a Focus on Kitchenware) (2009 1st Edition) published by European Commission Joint Research Center (JRC).
3) Artificial tap water was prepared according to German Standard DIN 10531: 2011-06.
4) [b] denotes as the sum of the results of the first and second migrates should not be exceed seven times the SRL

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TEST RESULT

Volatile Organic Matter Content for Plastic Materials in Contact with Foodstuffs – § 30 and 31 LFGB and BfR Recommendation

Parameter	Unit	Result	Maximum Allowable Limit
		1*	
Volatile Organic Matter	% (w/w)	0.234	0.5
Conclusion	-	PASS	-

Note: "<" = less than
mg/dm^2 = milligram per square decimeter

Method: Gravimetric method.

Remark: The limit refers to BfR Recommendation VI.

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TEST RESULT

***Phthalate Contents for Plastic Materials in Contact with Foodstuffs – Commission Regulation (EU) 2020/1245 of 2 September 2020 amending and correcting Regulation (EU) No 10/2011**

Parameter	Unit	Result	Maximum Allowable Limit
		2	
Butyl benzyl phthalate (BBP)	%	<0.005	0.1
Dibutyl phthalate (DBP)	%	<0.005	0.05
Di-2-ethylhexyl phthalate (DEHP)	%	<0.005	0.1
Di-iso-decyl phthalate (DIDP)	%	<0.005	0.1
Di-iso-nonyl phthalate (DINP)	%	<0.005	0.1
Conclusion	-	PASS	-

Note: "<" = less than

Method: Solvent extraction and analysis by Gas Chromatograph Mass Spectrometer (GC-MS) or Liquid Chromatograph Mass Spectrometer (LC-MS).

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TEST RESULT

***Specific Migration of Phthalates for Plastic Materials in Contact with Foodstuffs –Commission Regulation (EU) 2023/1442 of 11 July 2023 amending and correcting Regulation (EU) No 10/2011**

Test Condition: 3% Acetic acid,
50% ethanol,
Fill the flask at boiling temperature and leave it closed for 24 hrs (do NOT open).

Parameter	Simulant Used	Unit	Result 1			Maximum Allowable Limit
			1st Migrate	2nd Migrate	3rd Migrate	
Food contact surface area	-	dm^2	1.4			-
Volume of stimulant used	-	mL	223			-
Butyl benzyl phthalate (BBP)	50% ethanol	mg/kg	<0.3	<0.3	<0.3	6
	3% Acetic acid	mg/kg	<0.3	<0.3	<0.3	
Di-2-ethylhexyl phthalate (DEHP)	50% ethanol	mg/kg	<0.3	<0.3	<0.3	0.6
	3% Acetic acid	mg/kg	<0.3	<0.3	<0.3	
Dibutyl phthalate (DBP)	50% ethanol	mg/kg	<0.1	<0.1	<0.1	0.12
	3% Acetic acid	mg/kg	<0.1	<0.1	<0.1	
Butyl benzyl phthalate (BBP), Di-2-ethylhexyl phthalate (DEHP), Dibutyl phthalate (DBP) and Di-iso-butylphthalate (DIBP)	50% ethanol	mg/kg	<0.3	<0.3	<0.3	0.6 [(a)]
	3% Acetic acid	mg/kg	<0.3	<0.3	<0.3	
Di-iso-decyl phthalate (DIDP) and Di-iso-nonyl phthalate (DINP)	50% ethanol	mg/kg	<0.6	<0.6	<0.6	1.8
	3% Acetic acid	mg/kg	<0.6	<0.6	<0.6	
Conclusion	-	-	PASS			-

Note: "<" = less than
mg/kg = milligram per kilogram
(a) The result of is expressed as DEHP equivalents using a defined formula: DBP*5 + DIBP*4 + BBP*0.1 + DEHP*1.

Method: EN 13130-1: 2004 and analysis by Liquid Chromatograph with Triple Quadrupole Mass Spectrometer (LC-MS/MS).

Remark: 1) The migration test is carried out according to EU regulation No. 10/2011 and the corresponding regulatory statutes.

2) For article intended for repeated use, the migration tests are carried out three times on the same test sample and the third test result is shown in result table.

Remark:"*" The above results were transferred from (9323)318-0575 dated on Dec 22, 2023

END

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