



**BUREAU  
VERITAS**

# TEST REPORT

LAB NO. : (2419)336-0159  
DATE : December 20, 2019  
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Applicant:  
**CITRON FURNITURE TRADING**  
WAREHOUSE 10,CAPITOL REAL ESTATE WAREHOUSE(OPPOSITE AL SERKAL) AL QUOZ 1, DUBAI, UAE

Date of Submission: 2019-12-02,2019-12-17  
Test Period: 2019-12-02 to 2019-12-20

Sample Description:	Sample(s) received is(are) stated to be: Stainless Steel Vacuum Insulated Food Jar		
Manufacturer:	/	Buyer:	/
Style No.(s):	3160306180343/3160306180350 /3160306180374/ 3160306180398/3160306180381/ 3160306180367/ 0073593554007/0073593554014/ 0073593554021/0073593554038	PO No.:	/
Country of Origin:	CHINA	Country of Destination:	UAE

Test Item(s): Details see attached page(s).

## SUMMARY OF TEST RESULTS

TEST REQUESTED	CONCLUSION
*Sensory Test (Odour and Taste) for Materials in Contact with Foodstuffs – EC No. 1935/2004 and § 30 and 31 LFGB	PASS
*Overall Migration Test for Plastic Materials in Contact with Foodstuffs – Commission Regulation (EU) No. 10/2011 and Its Amendments	PASS
*Specific Migration of Heavy Metals for Plastic Materials in Contact with Foodstuffs – Commission Regulation (EU) No. 10/2011 and Its Amendments	PASS
*Total Chromium, Hafnium, Vanadium and Zirconium Content for Plastic Materials in Contact Foodstuffs – § 30 and 31 LFGB and BfR Recommendation	PASS
*Peroxides Value for Plastic Materials in Contact with Foodstuffs – § 30 and 31 LFGB and BfR Recommendation	PASS
*Volatile Organic Matter Content for Plastic Materials in Contact with Foodstuffs – § 30 and 31 LFGB and BfR Recommendation	PASS
*Extractable Matter Content for Silicon in Contact with Foodstuffs – § 30 and 31 LFGB and BfR Recommendation	PASS
*Migration of Heavy Metals Contents for Metal in Contact with Foodstuffs – EC No. 1935/2004 and § 30 and 31 LFGB	PASS

Note: The tested part of the sample was specified by client.  
The composite testing was performed as per client's request.  
The test conclusion was given based on the results of tested part.  
With the client's prior consent, \* was subcontracted test item.



**Bureau Veritas Consumer Products Services  
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**REMARK**

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

General enquiry and invoicing

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Technical enquiry

**BUREAU VERITAS CONSUMER PRODUCTS SERVICES (SHANGHAI) CO.,LTD.  
NINGBO BRANCH**

PREPARED BY : \_\_\_\_\_ YAN \_\_\_\_\_

\_\_\_\_\_  
Tony Feng



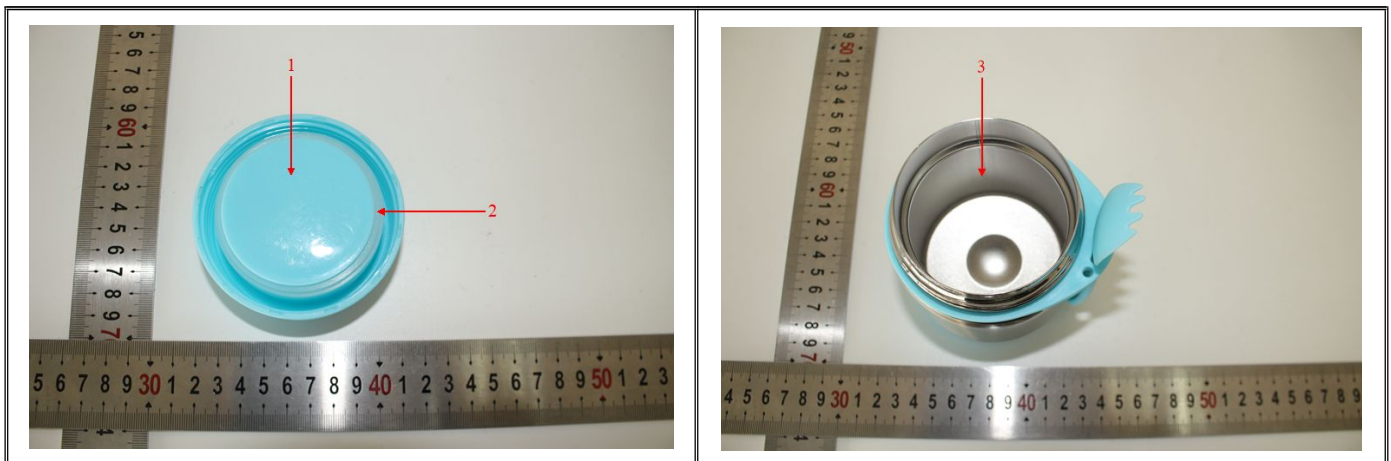
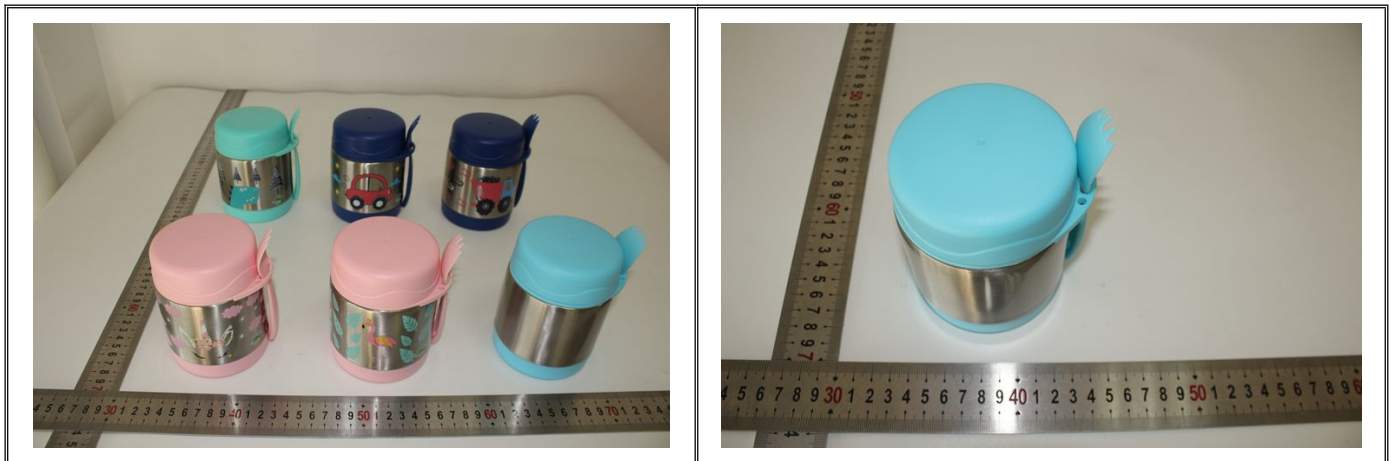
**Sample Description Assigned by Laboratory:**

Test Item	Description	Client Claimed Material
1	Light blue plastic	PP
2	White semi-transparent soft plastic	Silicone
3	Silvery metal cup	Stainless steel

Note:

g = gram(s)	% = percentage
mcg = microgram(s)	1 mg/kg = 0.0001%
mg/kg = milligram per kilogram	"<" = less than
mg/L = milligram per litre	">" = Greater than
g/kg = gram(s) per kilogram	Req. = Requirement
MDL = Method Detection Limit	"_" = Not Regulated
ND = Not Detected (< MDL)	NA = Not applicable
EX = Exempted	

**Photo of the Submitted Sample**



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**TEST RESULT**

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

Parameter	Result			Maximum Allowable Limit
	1	2	3	
Odour transfer into foodstuff through simulant, Coconut fat	0	0	0	2.5 Scale
Taste transfer into foodstuff through simulant, Coconut fat	0	0	0	2.5 Scale
Odour transfer into foodstuff through simulant, Mineral water	0	0	0	2.5 Scale
Taste transfer into foodstuff through simulant, Mineral water	0	0	0	2.5 Scale
<b>Conclusion</b>	PASS	PASS	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

**II.Overall Migration Test for Plastic Materials in Contact with Foodstuffs – Commission Regulation (EU) No. 10/2011 and Its Amendments**

Test Condition: 2 h at 70 °C (3% Acetic acid)  
0.5 h at 40 °C (Iso-octane)  
2 h at 60 °C (95% Ethanol)

Simulant Used	Unit	Result	Maximum Allowable Limit	Analytical Tolerance
		1		
Food contact surface area	dm <sup>2</sup>	1.0	-	-
Volume of stimulant used	mL	100	-	-
3% Acetic acid	mg/dm <sup>2</sup>	<5	10	+2
Iso-octane	mg/dm <sup>2</sup>	<5	10	+3
95% Ethanol	mg/dm <sup>2</sup>	<5	10	+3
<b>Conclusion</b>	-	PASS	-	-

Note: “<” = less than  
mg/dm<sup>2</sup> = milligram per square decimeter

Method: EN 1186-1: 2002;

Remark: The migration test is carried out according to EC Regulation No. 10/2011 and the corresponding regulatory statutes.



**TEST RESULT**

**III. Specific Migration of Heavy Metals for Plastic Materials in Contact with Foodstuffs – Commission Regulation (EU) No. 10/2011 and Its Amendments**

Test Condition: Boiling temp. , closed for 24 h (3% Acetic acid)

Parameter	Simulant Used	Unit	Result	Maximum Allowable Limit
			1	
Food contact surface area	-	dm <sup>2</sup>	0.6	-
Volume of simulant used	-	mL	100	-
Aluminum (Al)	3% Acetic acid	mg/kg	<0.1	1*
Barium (Ba)	3% Acetic acid	mg/kg	<0.1	1
Cobalt (Co)	3% Acetic acid	mg/kg	<0.005	0.05
Copper (Cu)	3% Acetic acid	mg/kg	<0.5	5
Iron (Fe)	3% Acetic acid	mg/kg	<5	48
Lithium (Li)	3% Acetic acid	mg/kg	<0.1	0.6
Manganese (Mn)	3% Acetic acid	mg/kg	<0.1	0.6
Zinc (Zn)	3% Acetic acid	mg/kg	<3	5*
Nickel(Ni)	3% Acetic acid	mg/kg	<0.002	0.02*
Tungsten (W)	3% Acetic acid	mg/kg	<0.02	0.05
<b>Conclusion</b>	-	-	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 EC Regulation No. 10/2011 and the corresponding regulatory statutes.

\*2) Al limit and lowering limit of Zn (5 mg/kg) are according to the Commission regulation (EU) 2016/1416 that amending and correcting Regulation (EU) No 10/2011 on plastic materials and articles intended to come into contact with food which is effective on Sep 14, 2018 finalized by EU government.

Ni limit is according to the Commission regulation (EU) 2017/752 that amending and correcting Regulation (EU) No 10/2011 on plastic materials and articles intended to come into contact with food which is effective on May 19, 2019 finalized by EU government.



**TEST RESULT**

**IV. 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
		1	
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
<b>Conclusion</b>	-	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 VII.

**V. 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
<b>Conclusion</b>	PASS	PASS	-

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

Remark: The limit refers to BfR Recommendation VII, XV.,

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

Parameter	Unit	Result	Maximum Allowable Limit
		2	
Volatile Organic Matter	% (w/w)	0.43	0.5
<b>Conclusion</b>	-	PASS	-

Note: “<” = less than  
% w/w = percent weight by weight

Method: Gravimetric method.

Remark: The limit refers to BfR Recommendation XV.



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**TEST RESULT**

**VII.Extractable Matter Content for Silicon in Contact with Foodstuffs – § 30 and 31 LFGB and BfR Recommendation**

Parameter	Unit	Result	Maximum Allowable Limit
		2	
Extractable Matter	% w/w	<0.05	0.5
<b>Conclusion</b>	-	PASS	-

Note: “<” = less than  
% w/w = percent weight by weight

Method: Gravimetric method after reflux for 5 hours with water.

Remark: The limit refers to BfR Recommendation XV.



**TEST RESULT**

**VIII. Migration of Heavy Metals Contents for Metal in Contact with Foodstuffs – EC No. 1935/2004 and § 30 and 31 LFGB**

Test Condition: 0.5% Citric Acid: Boiling temp. , closed for 24 h

Parameter	Unit	Result			Seven Times of Maximum Specific Release Limit(s) (SRLs) <sup>[a, b]</sup>
		3			
		1st Migrate	2nd Migrate	Sum of 1st & 2nd Migrate <sup>[a]</sup>	
Envelope volume	cm <sup>3</sup>	400	400	-	-
Volume of stimulant used	mL	267	267	-	-
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	<0.002	<0.002	<0.002	0.07
Zinc (Zn)	mg/kg	<1	<1	<1	35
Arsenic (As)	mg/kg	<0.001	<0.001	<0.001	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	<0.0004	<0.0004	<0.0004	0.021
Thallium (Tl)	mg/kg	<0.00005	<0.00005	<0.00005	0.0007
<b>Conclusion</b>	-	-	-	PASS	-





**TEST RESULT**

**VIII. Migration of Heavy Metals Contents for Metal in Contact with Foodstuffs – EC No. 1935/2004 and § 30 and 31 LFGB**

Test Condition: 0.5% Citric Acid: Boiling temp. , closed for 24 h

Parameter	Unit	Result	Maximum Specific Release Limit(s) (SRLs) <sup>[a]</sup>
		3	
		3rd Migrate	
Envelope volume	cm <sup>3</sup>	400	-
Volume of stimulant used	mL	267	-
Aluminum (Al)	mg/kg	<0.1	5
Antimony (Sb)	mg/kg	<0.004	0.04
Chromium (Cr)	mg/kg	<0.1	0.25
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	<0.002	0.01
Zinc (Zn)	mg/kg	<1	5
Arsenic (As)	mg/kg	<0.001	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	<0.0004	0.003
Thallium (Tl)	mg/kg	<0.00005	0.0001
<b>Conclusion</b>	-	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) <sup>[a]</sup> 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) <sup>[b]</sup> denotes as the sum of the results of the first and second migrates should not be exceed seven times the SRL

END



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**Appendix**  
**Additional Model**



Note: The information in this Appendix is provided by client. Since the client was not able to provide the sample of additional Style, above additional Style(s) hasn't been tested, but only based on the guarantee letter provided by the client. Bureau Veritas-CPS takes no responsibility for any mistakes and the problems of product consistency caused by inaccurate and/or invalid information submitted by the client. The client will take the responsibility of all discrepancy and risk.