



Test Report

No.T32220262605SC

Date: May 11, 2022

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LEXINGTON LIMITED

UNIT.5, G/F., HING HON BUILDING, 26-36 KING'S ROAD, TIN HAU, HONG KONG

The following samples were submitted and identified by/on behalf of the client as:

LEXNGO MICROWAVABLE STAINLESS STEEL CONTAINER

Case No. : CA322202640719
Sample Receiving Date : APR 28, 2022
Testing Period : APR 28, 2022 - MAY 11, 2022

Test Requested	Conclusion
1. US FDA Generally Recognized As Safe (GRAS) Specifications – Total Chromium content in stainless steel (Selected parts as specified by client)	PASS
2. US FDA Generally Recognized As Safe (GRAS) Specifications – Stainless steel composition with reference to US CMA recommended specification (Selected parts as specified by client)	SEE RESULTS

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3.	German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 31. (Selected parts as specified by client)	--
	a) Sensorial Examination Odour and Taste Test	PASS
4.	German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 and Technical Guide on Metals and alloys used in food contact materials of Council of Europe Resolution CM/Res(2013)9. (Selected parts as specified by client)	--
	a) Metal / Metallic Coating – Extractable Heavy Metals	PASS

***** FOR FURTHER DETAILS, PLEASE REFER TO THE FOLLOWING PAGE(S) *****

Signed for and on behalf of
SGS Hong Kong Ltd.



Lam Chi Ho, Jacko
Senior Chemist

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Test Results:

1. US FDA Generally Recognized As Safe (GRAS) Specifications – Total Chromium content in stainless steel

Method : Acid digestion followed by analysis with Inductively Coupled Argon Plasma – Atomic Emission Spectrometry.

Test Item	Result (%)	Reporting Limit (%)	Requirement
	1		
Chromium (Cr)	16.2	0.005	Not less than 16%
Comment	PASS	--	--

Sample Description :

1. Silvery metal (Body M size)

- Note : 1. % = Percentage by weight
2. ND = Not Detected

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**2. US FDA Generally Recognized As Safe (GRAS) Specifications –
Stainless steel composition with reference to US CMA recommended specification**

Method :

- a. For Chromium, Nickel, Manganese, Silicon, Phosphorus and Molybdenum content :
Acid digestion followed by analysis with Inductively Coupled Argon Plasma – Atomic Emission Spectrometry.
- b. For Carbon and Sulfur content : With reference to ASTM E1019-08
- c. For Nitrogen content : Block Digestion Method

Test Item	Result (%)	Reporting Limit (%)
	1	
Chromium (Cr)	16.2	0.01
Nickel (Ni)	10.3	0.01
Manganese (Mn)	1.49	0.01
Silicon (Si)	0.42	0.01
Phosphorus (P)	0.03	0.01
Carbon (C)	0.05	0.01
Sulfur (S)	ND	0.01
Molybdenum (Mo)	2.44	0.01
Nitrogen (N)	ND	0.01

Sample Description :

- 1. Silvery metal (Body M size)

- Note :
- 1. % w/w = percentage of weight by weight
 - 2. ND = Not Detected
 - 3. -- = Not Applicable
 - 4. Carbon and Sulfur contents were conducted in SGS approved sub-contraction laboratory.

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3. German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 31.

a) Sensory Examination – Odour and Taste Test

Method : With reference to DIN10955:2004-06.
 Test Condition : 180°C for 0.5 hour
 Test media : Baking dough
 No. of panelist : 6

Test Item	Result	Permissible Limit
	1	
Sensorial examination odour (Intensity scale)	0	2.5
Sensorial examination taste (Intensity scale)	0	2.5
Comment	PASS	--

Sample Description:

1. Silvery metal (Body M size)

Note: Intensity scale (rounded at 0.5) :

- 0 – no perceptible difference
- 1 – just perceptible difference
- 2 – slight difference
- 3 – marked difference
- 4 – strong difference

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4. **German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 and Technical Guide on Metals and alloys used in food contact materials of Council of Europe Resolution CM/Res(2013)9.**

a) Metal / Metallic Coating – Extractable Heavy Metals

Method : Sample preparation in 0.5% citric acid (p/v) in aqueous solution at 100°C for 2 hours with reference to EN13130-1:2004 for selection of test method, followed by analysis using Inductively Coupled Argon Plasma Spectrometry (ICP) and Inductively coupled plasma-mass spectrometry (ICP-MS).

Test Item	Result (mg/kg)		Reporting Limit (mg/kg)	7 x SRL (mg/kg)	Specific Release Limit (SRL) (mg/kg)
	1				
	1 st + 2 nd Migration	3 rd Migration			
Aluminium (Al)	ND	ND	0.2	35	5
Antimony (Sb)	ND	ND	0.02	0.28	0.04
Arsenic (As)	ND	ND	0.001	0.014	0.002
Barium (Ba)	ND	ND	0.25	8.4	1.2
Beryllium (Be)	ND	ND	0.005	0.07	0.01
Cadmium (Cd)	ND	ND	0.002	0.035	0.005
Chromium (Cr)	ND	ND	0.1	1.75	0.25
Cobalt (Co)	ND	ND	0.01	0.14	0.02
Copper (Cu)	ND	ND	0.1	28	4
Iron (Fe)	ND	ND	0.25	280	40
Lead (Pb)	ND	ND	0.005	0.07	0.01
Lithium (Li)	ND	ND	0.02	0.336	0.048
Manganese (Mn)	ND	ND	0.25	12.6	1.8
Mercury (Hg)	ND	ND	0.002	0.021	0.003
Molybdenum (Mo)	ND	ND	0.02	0.84	0.12
Nickel (Ni)	ND	ND	0.05	0.98	0.14
Silver (Ag)	ND	ND	0.03	0.56	0.08
Thallium (Tl)	ND	ND	0.0001	0.0007	0.0001
Tin (Sn)	ND	ND	5	700	100
Vanadium (V)	ND	ND	0.005	0.07	0.01
Zinc (Zn)	ND	ND	1	35	5
Comment	PASS		--	--	--

Sample Description:

1. Silvery metal (Body M size)

- Note:
1. mg/kg = milligram per kilogram of foodstuff in contact with
 2. °C = degree Celsius
 3. ND = Not Detected
 4. According to Council of Europe Resolution CM/Res(2013)9, the result from 3rd migration shall comply with the Specific Release Limit (SRL) and the sum of 1st and 2nd migration shall not exceed seven times of SRL for repeated use articles

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Remark:

- When statement of conformity is made, unless the decision rule was mentioned in above specified test items, the decision rule would be based on the non-binary statement with guard band (is equal to the expanded measurement uncertainty with a 95% coverage probability, $w = U_{95}$) in ILAC-G8:09/2019 Clause 4.2.3.
 "Pass - the measured value is within (or below / above) the acceptance limit, where the acceptance limit is below / above to the guard band." or "Pass - The measured values were observed in tolerance at the points tested. The specific false accept risk is up to 2.5%."
 "Fail - the measured value is out of (or below / above) the tolerance limit added / subtracted to the guard band." or "Fail - One or more measured values were observed out of tolerance at the points tested". The specific false reject risk is up to 2.5%.
 "Inconclusive – It is not possible to state the conformity. Either one or more measured values were observed in the portion of the expanded measurement uncertainty intervals at the points tested where the specific risk is up to 50%."

Sample Photo:



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*** End of Report ***

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