



GAIA TRADING S.R.L.

Technical Report: (8819)226-0038

Aug 28, 2019

Date Received: Aug 14, 2019

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GAIA TRADING S.R.L.
VIA DEI CAPPUCINI, 51-60027 OSIMO ANCONA ITALY

Sample Description:	ALUMINUM BOTTLE	Sample Size:	2
Vendor:	N/A	Style No(s):	ART ALBO 1
Manufacturer:	SOURXING LTD	SKN/SKU No.:	NOT PROVIDE
Buyer:	NO BUYER	PO No.:	50930
Labeled Age Grade:	NOT RECORD	Ref #:	NOT PROVIDE
Appropriate Age Grade:	NOT REQUESTED	Country of Origin:	CHINA
Client Specified Age Grade:	NOT SPECIFIED	Assortment No.:	NOT PROVIDE
Grade:		Country of Destination:	ITALY
Tested Age Grade:	N/A	Test Finished Date:	AUG 28, 2019
UPC Code:	N/A		
Test Starting Date:	AUG 14, 2019		

EXECUTIVE SUMMARY:

The sample(s) MEETS the following requirement(s):

- Sensory Test (Odour and Taste) for Materials in Contact with Foodstuffs – EC No. 1935/2004 and § 30 and 31 LFGB and BfR Recommendation.
- Overall Migration Test for Plastic Materials in Contact with Foodstuffs – Commission Regulation (EU) No. 10/2011 and Its Amendments.
- Specific Migration of Heavy Metals for Plastic Materials in Contact with Foodstuffs – Commission Regulation (EU) No. 10/2011 and Its Amendments.

To be continued

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REMARK

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

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Business Contact: (86) 0769 85893595

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EXECUTIVE SUMMARY:

The sample(s) MEETS the following requirement(s):

- Specific Migration of Primary Aromatic Amine for Materials in Contact with Foodstuffs – Commission Regulation (EU) No. 10/2011 and Its Amendments.
- Specific Migration of Bisphenol A for Materials in Contact with Foodstuffs – Commission Regulation (EU) No. 10/2011 and Its Amendments.
- Overall Migration Test for Rubber in Contact with Foodstuffs – § 30 and 31 LFGB, BfR Recommendation and Council of Europe, Resolution ResAP(2004)4.
- Specific Migration of Primary Aromatic Amine for Rubber in Contact with Foodstuffs – § 30 and 31 LFGB, BfR Recommendation.
- Specific Migration of Formaldehyde for Materials in Contact with Foodstuffs – § 30 and 31 LFGB and BfR Recommendation.
- Total Zinc and Lead Content for Rubber in Contact with Foodstuffs - § 30 and 31 LFGB and BfR Recommendation.
- Total Chromium, Hafnium, Vanadium and Zirconium Content for Plastic Materials in Contact with Foodstuffs – § 30 and 31 LFGB and BfR Recommendation.
- Peroxides Value for Plastic Materials in Contact with Foodstuffs – § 30 and 31 LFGB and BfR Recommendation.

Tested Component(s) Description List:

Sample ID	Component	Location	Style	Client Claimed Material
I001	Bottle inside coating	Inner of bottle	-	Coating
I002	White rubber sealing	Sealing	-	Rubber
I003	Black plastic	Cap	-	PP
I004	Al bottle	Bottle	-	-



RESULTS:

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
	I004	
Odour	1	2.5 Scale
Taste transfer into foodstuff through simulant, Mineral water	1	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



RESULTS:

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

Test Condition: OM 3: 2 h at 70 °C (10% Ethanol)

Simulant Used	Unit	Result		Maximum Allowable Limit	Analytical Tolerance
		I001	I003		
Food contact surface area	dm ²	0.6	0.6	-	-
Volume of stimulant used	mL	100	100	-	-
10% Ethanol	mg/dm ²	<5	<5	10	+2
Conclusion	-	PASS	PASS	-	-

Note: “<” = less than
mg/dm² = 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.

RESULTS:

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

Test Condition: 1h at 40 °C (3% Acetic acid)

Parameter	Simulant Used	Unit	Result		Maximum Allowable Limit
			I001	I003	
Food contact surface area	-	dm ²	0.6	0.6	-
Volume of stimulant used	-	mL	100	100	-
Barium (Ba)	3% Acetic acid	mg/kg	<0.1	<0.1	1
Cobalt (Co)	3% Acetic acid	mg/kg	<0.005	<0.005	0.05
Copper (Cu)	3% Acetic acid	mg/kg	<0.5	<0.5	5
Iron (Fe)	3% Acetic acid	mg/kg	<5	<5	48
Lithium (Li)	3% Acetic acid	mg/kg	<0.1	<0.1	0.6
Manganese (Mn)	3% Acetic acid	mg/kg	<0.1	<0.1	0.6
Zinc (Zn)	3% Acetic acid	mg/kg	<3	<3	5
Aluminum (Al)	3% Acetic acid	mg/kg	<0.1	<0.1	1
Nickel (Ni)	3% Acetic acid	mg/kg	<0.002	<0.002	0.02
Conclusion	-	-	PASS	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) 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.



RESULTS:

Specific Migration of Primary Aromatic Amine for Materials in Contact with Foodstuffs – Commission Regulation (EU) No. 10/2011 and Its Amendments

Test Condition: 1 h at 40 °C (3% Acetic acid)

Parameter	Simulant Used	Unit	Result		Maximum Allowable Limit
			I001	I003	
Food contact surface area	-	dm ²	0.6	0.6	-
Volume of stimulant used	-	mL	100	100	-
Primary Aromatic Amine	3% Acetic acid	mg/kg	<0.01	<0.01	0.01
Conclusion	-	-	PASS	PASS	-

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

Method: EN 13130-1:2004, LC-MS/ LC-MS/MS analysis.

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, only single determination is carried out in the migration tests and the test result is shown in result table.



RESULTS:

Specific Migration of Bisphenol A for Materials in Contact with Foodstuffs – Commission Regulation (EU) No. 10/2011 and Its Amendments

Test Condition: 1 h at 40°C (10% Ethanol)

Parameter	Simulant Used	Unit	Result		Maximum Allowable Limit
			I001	I003	
Food contact surface area	-	dm ²	0.6	0.6	-
Volume of stimulant used	-	mL	100	100	-
Bisphenol A	10% Ethanol	mg/kg	<0.05	<0.05	0.05
Conclusion	-	-	PASS	PASS	-

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

Method: EN 13130-1: 2004 and CEN/TS 13130-13:2005.

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

3) 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.



RESULTS:

Overall Migration Test for Rubber in Contact with Foodstuffs – § 30 and 31 LFGB, BfR Recommendation and Council of Europe, Resolution ResAP(2004)4

Simulant Used	Unit	Result	Maximum Allowable Limit	Analytical Tolerance
		I002		
Food contact surface area	dm ²	0.6	-	-
Volume of stimulant used	mL	100	-	-
10% Ethanol	mg/dm ²	<5	10	+2
Conclusion	-	PASS	-	-

Note: “<” = less than
mg/dm² = milligram per square decimeter
mg/kg = milligram per kilogram

Method: BfR Recommendation XXI

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.



RESULTS:

Specific Migration of Primary Aromatic Amine for Rubber in Contact with Foodstuffs – § 30 and 31 LFGB, BfR Recommendation

Test Condition: 1h at 40 °C (3% Acetic acid)

Parameter	Simulant Used	Unit	Result	Maximum Allowable Limit
			I002	
Food contact surface area	-	dm ²	0.6	-
Volume of stimulant used	-	mL	100	-
Primary Aromatic Amine	3% Acetic acid	ug/L	<10	20
Conclusion	-	-	PASS	-

Note: “<” = less than
ug/L = microgram per liter

Method: EN 13130-1: 2004 and 64 LFGB L 00.00-6:2004.

Remark: The limit refers to BfR Recommendation XXI.

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



RESULTS:

Specific Migration of Formaldehyde for Materials in Contact with Foodstuffs – § 30 and 31 LFGB and BfR Recommendation

Test Condition: 1 h at 40°C (10% Ethanol)

Parameter	Simulant Used	Unit	Result	Maximum Allowable Limit
			I002	
Food contact surface area	-	dm ²	0.6	-
Volume of stimulant used	-	mL	100	-
Formaldehyde	10% Ethanol	mg/kg	<1	15 / 3
Conclusion	-	-	PASS	-

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

Method: EN 13130-1:2004 and CEN/TS 13130-23:2005

Remark: The limit refers to BfR Recommendation XXI.

Remark: 1) The migration test is carried out according to EC 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.



RESULTS:

Total Zinc and Lead Content for Rubber in Contact with Foodstuffs - § 30 and 31 LFGB and BfR Recommendation

Parameter	Unit	Result	Maximum Allowable Limit
		I002	
Total Lead (Pb)	%	<0.001	0.001
Total Zinc (Zn)	%	<0.01	1.0
Conclusion	-	PASS	-

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

Remark: The limit refers to BfR Recommendation XXI.



RESULTS:

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
		I003	
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 VII.



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RESULTS:

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

Parameter	Result	Maximum Allowable Limit
	I003	
Peroxides	Absent	Absent
Conclusion	PASS	-

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

Remark: The limit refers to BfR Recommendation VII.

RESULTS:



END OF REPORT