

**Test Report** Date: 11 Aug 2022 No. SHAHG2211377101 Page 1 of 8

Client Name : VITAMIX MANUFACTURING CORPORATION Client Address: 8615 USHER ROAD OLMSTED TWP, OHIO 44138

Sample Name: **BLENDER CONTAINERS AND PARTS** 

Style No.: VM0142-103814

The above sample(s) and information were provided by the client.

SGS Job No.: SHHL2207031962CW - SH

Date of Sample Received: 03 Aug 2022

Testing Period: 03 Aug 2022 - 11 Aug 2022

Test Requested: Selected test(s) as requested by the client.

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

Result Summary:

Test Requested	Conclusion
(EU) No 10/2011 and its amendment (EU) 2020/1245 Regulation-Overall migration	PASS
Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004-Sensorial examination odour and taste test	PASS
(EU) No 10/2011 and its amendment (EU) 2020/1245 Regulation -Specific migration of heavy metal	PASS
(EU) No 10/2011 and its amendment (EU) 2020/1245 Regulation-Specific migration of primary aromatic amine (total)	PASS

Signed for and on behalf of SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.

Lezlie Chen Approved Signatory





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Test Result(s):

**Test Part Description:** 

Specimen No. SGS Sample ID Description Material (claimed by the client)

SN1 SHA22-113771.001 Black soft plastic body TPE

Remarks:

(1) mg/dm<sup>2</sup> = milligram per square decimeter

(2) mg/kg = milligram per kilogram

(3) °C= degree Celsius

(4) < = less than

(5) MDL = Method Detection Limit

(6) ND = Not Detected ( < MDL)

## (EU) No 10/2011 and its amendment (EU) 2020/1245 Regulation-Overall migration

Test Method: With reference to Commission Regulation (EU) No 10/2011 of 14 January 2011 Annex III and

Annex V for selection of condition and EN 1186-1:2002 for selection of test methods;

EN 1186-3: 2002 aqueous food simulants by total immersion method;

EN 1186-2: 2002 olive oil by total immersion method;

Simulant Used	<u>Time</u>	<u>Temperature</u>	Max. Permissible Limit	Result of 001  Overall migration	Conclusion
3% Acetic acid (W/V) aqueous solution (Third migration)	2.0hr(s)	70°C	10mg/dm²	<3.0mg/dm²	PASS
3% Acetic acid (W/V) aqueous solution (Second migration)	2.0hr(s)	70°C	-	<3.0mg/dm²	
3% Acetic acid (W/V) aqueous solution (First migration)	2.0hr(s)	70°C	-	<3.0mg/dm²	
Stability			-		YES
10% Ethanol (V/V) Aqueous Solution (Third migration)	2.0hr(s)	70°C	10mg/dm²	<3.0mg/dm²	PASS
10% Ethanol (V/V) Aqueous Solution (Second migration)	2.0hr(s)	70°C	-	<3.0mg/dm²	
10% Ethanol (V/V) Aqueous Solution (First migration)	2.0hr(s)	70°C	-	<3.0mg/dm²	



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t E&E (86–21) 61402553 f E&E (86–21)64953679 t HL (86–21) 61402594 f HL (86–21)61156899



Test Report	No. SH	AHG2211377101 Date: 11 Aug 2022		Date: 11 Aug 2022	
Stability			-		YES
Rectified olive oil (Third time)	2.0hr(s)	70°C	10mg/dm²	<3.0mg/dm²	PASS
Rectified olive oil (Second time)	2.0hr(s)	70°C	-	<3.0mg/dm²	
Rectified olive oil (First migration)	2.0hr(s)	70°C	-	<3.0mg/dm²	
Stability			-		YES
Area/Volume			-	10.0dm²/kg	

#### Notes:

- (1) Analytical tolerance of aqueous simulants is 2 mg/dm<sup>2</sup> or 12 mg/kg.
- (2) Analytical tolerance of fatty food simulants is 3 mg/dm<sup>2</sup> or 20mg/kg.
- (3) Test condition & simulant were specified by client.
- (4) For repeated use, compliance of the material or article is verified on the basis of the level of the migration found in the third test and on the basis of the stability of the material or article from the first to the third migration test.

# Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004-Sensorial examination odour and taste test

Test Method: With reference to DIN 10955: 2004

No. of panelist: 6

Test Item(s)	<u>Limit</u>	<u>001</u>
Test media	-	DW
Test time (hr(s))	-	0.5
Temperature(°C)	-	100
Sensorial examination odour (Point scale)	2.5	0
Sensorial examination taste (Point scale)	2.5	0
Conclusion		PASS

#### Notes:

Scale evaluation:

0 – no perceptible difference

1 – just perceptible difference

2 - slight difference

3 - marked difference

4 - strong difference

DW= Distilled water



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### (EU) No 10/2011 and its amendment (EU) 2020/1245 Regulation -Specific migration of heavy metal

Test Method: With reference to EN13130-1:2004, analysis was performed by ICP-OES and ICP-MS.

Sample 001

Simulant Used: 3% Acetic acid (W/V) aqueous solution

Test Condition: 100 °C 0.5 hr(s)

Test Item(s)	Max. Permissible <u>Limit</u>	<u>Unit</u>	MDL	Test result
Migration times	-	-	-	First
Area/volume	-	dm²/kg	-	6.0
Arsenic(As)	ND	mg/kg	0.01	ND
Cadmium(Cd)	ND	mg/kg	0.002	ND
Chromium(Cr)	ND	mg/kg	0.01	ND
Mercury(Hg)	ND	mg/kg	0.01	ND
Lead(Pb)	ND	mg/kg	0.01	ND
Aluminium(AI)	-	mg/kg	0.1	ND
Barium(Ba)	-	mg/kg	0.25	ND
Cobalt(Co)	-	mg/kg	0.01	ND
Copper(Cu)	-	mg/kg	0.25	ND
Iron(Fe)	-	mg/kg	5	ND
Lithium(Li)	-	mg/kg	0.1	ND
Manganese(Mn)	-	mg/kg	0.1	ND
Zinc(Zn)	-	mg/kg	0.5	ND
Nickel(Ni)	-	mg/kg	0.01	ND
Antimony(Sb)	-	mg/kg	0.01	ND
Europium (Eu)	-	mg/kg	0.025	ND
Gadolinium(Gd)	-	mg/kg	0.025	ND
Lanthanum(La)	-	mg/kg	0.025	ND
Terbium(Tb)	-	mg/kg	0.025	ND
Europium (Eu)+ Gadolinium(Gd)+ Lanthanum(La)+ Terbium(Tb)	-	mg/kg	-	ND

#### Sample 001

Simulant Used: 3% Acetic acid (W/V) aqueous solution

Test Condition: 100 °C 0.5 hr(s)



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Test Item(s)	<u>Max. Permis</u> Limit	ssible <u>Unit</u>	<u>MDL</u>	Test result	
Migration times	-	-	-	Second	
Area/volume	-	dm²/kg	-	6.0	
Arsenic(As)	-	mg/kg	0.01	ND	
Cadmium(Cd)	-	mg/kg	0.002	ND	
Chromium(Cr)	-	mg/kg	0.01	ND	
Mercury(Hg)	-	mg/kg	0.01	ND	
Lead(Pb)	-	mg/kg	0.01	ND	
Aluminium(AI)	-	mg/kg	0.1	ND	
Barium(Ba)	-	mg/kg	0.25	ND	
Cobalt(Co)	-	mg/kg	0.01	ND	
Copper(Cu)	-	mg/kg	0.25	ND	
Iron(Fe)	-	mg/kg	5	ND	
Lithium(Li)	-	mg/kg	0.1	ND	
Manganese(Mn)	-	mg/kg	0.1	ND	
Zinc(Zn)	-	mg/kg	0.5	ND	
Nickel(Ni)	-	mg/kg	0.01	ND	
Antimony(Sb)	-	mg/kg	0.01	ND	
Europium (Eu)	-	mg/kg	0.025	ND	
Gadolinium(Gd)	-	mg/kg	0.025	ND	
Lanthanum(La)	-	mg/kg	0.025	ND	
Terbium(Tb)	-	mg/kg	0.025	ND	
Europium (Eu)+ Gadolinium(Gd)+ La Terbium(Tb)	nthanum(La)+ -	mg/kg	-	ND	

# Sample 001

Simulant Used: 3% Acetic acid (W/V) aqueous solution

Test Condition: 100 °C 0.5 hr(s)

Test Item(s)	Max. Permissible	<u>Unit</u>	<u>MDL</u>	Test result
	<u>Limit</u>			
Migration times	-	-	-	Third
Area/volume	-	dm²/kg	-	6.0
Arsenic(As)	ND	mg/kg	0.01	ND
Cadmium(Cd)	ND	mg/kg	0.002	ND
Chromium(Cr)	ND	mg/kg	0.01	ND
Mercury(Hg)	ND	mg/kg	0.01	ND
Lead(Pb)	ND	mg/kg	0.01	ND
Aluminium(Al)	1	mg/kg	0.1	ND



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Barium(Ba)		1	mg/kg	0.25	ND
Cobalt(Co)		0.05	mg/kg	0.01	ND
Copper(Cu)		5	mg/kg	0.25	ND
Iron(Fe)		48	mg/kg	5	ND
Lithium(Li)		0.6	mg/kg	0.1	ND
Manganese(Mn)		0.6	mg/kg	0.1	ND
Zinc(Zn)		5	mg/kg	0.5	ND
Nickel(Ni)		0.02	mg/kg	0.01	ND
Antimony(Sb)		0.04	mg/kg	0.01	ND
Europium (Eu)		-	mg/kg	0.025	ND
Gadolinium(Gd)		-	mg/kg	0.025	ND
Lanthanum(La)		-	mg/kg	0.025	ND
Terbium(Tb)		-	mg/kg	0.025	ND
Europium (Eu)+ Gadolinium(Gd)+ L	anthanum(La)+	0.05	mg/kg	-	ND
Terbium(Tb)					
Stability		-	-	-	YES
Conclusion					PASS

#### Notes:

- (1) Test condition & simulant were specified by client.
- (2) For repeated use, compliance of the material or article is verified on the basis of the level of the migration found in the third test and on the basis of the stability of the material or article from the first to the third migration test. For substances which limit is "Not Detected", the compliance is based on the first migration test result if it is detected.

# (EU) No 10/2011 and its amendment (EU) 2020/1245 Regulation-Specific migration of primary aromatic amine (total)

Test Method: With reference to EN 13130-1: 2004, analysis was performed by UV-Vis.

## Sample 001

Simulant Used: 3% Acetic acid (W/V) aqueous solution

Test Condition: 100 °C 0.5 hr(s)

Test Item(s)	Max. Permissible	<u>Unit</u>	<u>MDL</u>	Test result
	<u>Limit</u>			
Migration times	-	-	-	First
Area/volume	-	dm²/kg	-	6.0
Specific migration of primary aromatic amine	-	mg/kg	0.002	ND

#### Sample 001



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Simulant Used: 3% Acetic acid (W/V) aqueous solution

Test Condition: 100 °C 0.5 hr(s)

Test Item(s)	Max. Permissible	<u>Unit</u>	<u>MDL</u>	Test result
	<u>Limit</u>			
Migration times	-	-	-	Second
Area/volume	-	dm²/kg	-	6.0
Specific migration of primary aromatic amine	-	mg/kg	0.002	ND

## Sample 001

Simulant Used: 3% Acetic acid (W/V) aqueous solution

Test Condition: 100 °C 0.5 hr(s)

Test Item(s)	Max. Permissible	<u>Unit</u>	<u>MDL</u>	Test result
	<u>Limit</u>			
Migration times	-	-	-	Third
Area/volume	-	dm²/kg	-	6.0
Specific migration of primary aromatic amine	0.01	mg/kg	0.002	ND
Stability	-	-	-	YES
Conclusion				PASS

#### Notes:

- (1) Test condition & simulant were specified by client.
- (2) For repeated use, compliance of the material or article is verified on the basis of the level of the migration found in the third test and on the basis of the stability of the material or article from the first to the third migration test. For substances which limit is "Not Detected", the compliance is based on the first migration test result if it is detected.

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Sample photo:



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