

TEST REPORT

Job No./Report No TR2253535-RV1

Date: 10 March 2023

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EGEMEN PLASTİK SANAYİ VE TİCARET LTD. ŞTİ.

MAHUTBEY MAH. 2430 SK.11 ADA NO: 13-15 BAĞCILAR – İSTANBUL

TEL: 0533 723 55 52

To the attention of Muammer Ege

The following sample(s) was (were) submitted and identified by/on behalf of the client as:

Sample No.	Sample Description
A	Sandwich Storage Box
B	Square Storage Box
C	Bowl

Client's reference No. : TR 2253535-RV1
Sample Receiving Date : 19 January 2023
Resubmit Date : 10 March 2023
Test Performing Period : 19 January 2023~08 March 2023

Overall Conclusion : PASS

Test Results : Please refer to the next page(s).

Performed Test Summary: Selected test(s) as requested by client against Client's performance standard.

*** Remark(s):**

1 - Client provided declaration that below samples are made of the same material and color which are different on the shape and size merely.

D-103, D-104, D-105, D-117, D-118, D-119, D-120, D-121, D-128, D-180, D-181, D-182, D-184, D-185, D-186, D-187, D-188, D-189, D-190, D-191, D-197, D-198, D-199, D-204, D-205, D-206, D-207, D-208, D-209, D-210, D-211, D-212, D-213, D-214, D-215, D-216, D-217, D-220, D-221, D-222, D-229, D-230, D-231, D-239, D-240, D-241, D-249, D-250, D-251, D-259, D-260, D-261, D-266, D-267, D-268, D-269, D-270, D-279, D-280, D-281, D-282, D-283, D-284, D-285, D-286, D-287, D-288, D-289, D-297, D-298, D-299, D-300, D-301, D-303, D-307, D-309, D-310, D-311, D-312, D-313, D-314, D-315, D-316, D-317, D-318, D-319, D-320, D-340, D-351, D-354, D-355, D-356, D-357, D-372, D-373, D-374, D-375, D-376, D-377, D-378, D-379, D-380, D-381, D-382, D-383, D-384, D-390, D-391, D-411, D-412, D-413, D-414, D-415, D-416, D-417, D-418, D-419, D-420, D-421, D-422, D-423, D-424, D-425, D-426, D-427, D-428, D-429, D-430, D-431, D-432, D-433, D-434, D-435, D-436, D-437, D-438, D-439, D-440, D-441, D-442, D-443, D-444, D-445, D-446, D-447, D-448, D-449, D-450, D-451, D-452, D-453, D-454, D-455, D-456, D-457, D-458, D-459, D-460, D-461, D-462, D-463

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Test Parameters	Result			
<u>Chemical tests</u>	<u>A1</u>	<u>B1</u>	<u>B2</u>	<u>C1</u>
FCM - Overall Migration of Total Non-volatile Substance in Plastic Materials - Simulant A (Ethanol 10%)	M	M	M	M
FCM - Overall Migration of Total Non-volatile Substance in Plastic Materials - Simulant B (Acetic acid 3%)	M	M	M	M
FCM - Overall Migration of Total Non-volatile Substance in Plastic Materials (95% Ethanol)	M	M	M	M
FCM - Overall Migration of Total Non-volatile Substance in Plastic Materials (Isooctane)	M	M	M	M
FCM - Soluble Heavy Metals in Aqueous Test Simulants (3% Acetic Acid)	M	M	M	M
FCM - Specific Migration of Primary Aromatic Amines	M	-	M	M
FCM - Sensory Analysis for Packaging Materials and Packages for Food Products	M	M	M	M

Remarks	M = Meets client's requirement
	F = Does not meet client's requirement
	I = Inconclusive
	* = No specified requirement
Notes:	Conclusions on meet/fail are based on the test result from the actual sampling of the received sample(s).
	Residual sample can be returned to client if requested.

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The test results relate to the tested items only.

Test reports without SGS seal and authorised signatures are invalid.

Issued in Istanbul
Signed for and on behalf of
SGS Supervise Gözetme Etüd Kontrol Servisleri A.Ş.

IN THIS REVISED-1 REPORT, MODEL/STYLE NO WERE ADDED BY THE REQUEST OF THE APPLICANT.**THIS REPORT SUPERSEDES OUR REPORT NO: 2253535 DATED 08.03.2023**

RAVİYE MUTLU
Customer Services Supervisor

Bora Şirinbilek
Hardline C&H Testing Services Manager



Component List / List of Materials for Chemical Test

Sample No.	Sample Description	Material No.	Component	Material	Colour
A	Sandwich Storage Box	A1	Inner main	Plastic	Purple
B	Square Storage Box	B1	Box main	Plastic	Transparent
B	Square Storage Box	B2	Lid main	Plastic	Pink
C	Bowl	C1	Inner main	Plastic	Pink

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TEST REPORT Job No./Report No TR2253535-RV1 Date: 10 March 2023 Page 4 of 32**Testing as per Commission Regulation (EU) No 10/2011****Plastic – Overall migration¹**

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 (1st + 2nd + 3rd Migration); EN 1186-9:2002 evaporable food simulants by article filling;

Simulant Used	Test Condition	Result (mg/dm ²)			Reportin g Limit (mg/dm ²)	Permissible Limit (mg/dm ²)
		A1				
		1 st migration	2 nd migration	3 rd migration		
10% Ethanol (V/V) Aqueous Solution	10 days at 40°C	ND	ND	ND	3.0	10
3% Acetic Acid (W/V) Aqueous Solution	10 days at 40°C	ND	ND	ND	3.0	10
Stability^		Yes			--	--
Comment	--	Pass			--	--

Note : 1. mg/dm² = milligram per square decimeter
 2. °C = degree Celsius
 3. ND = Not Detected
 4. Permissible Limit is according to Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments.

Remark:

- Analytical tolerance of evaporable simulants is 2mg/dm².
- Test condition, simulant were specified by client.
- The ratio of surface area to volume ratio is 2,66 dm² per 1 kg of foodstuff in contact with.
- The volume of simulant used is 0.3 L.
- [^] = Stability trend is based on the result of the material from first to third migration test as per described in Commission Regulation (EU) No 10/2011 of 14 January 2011 Annex V for repeated use articles.
- The compliance is based on the stability trend and 3rd migration result. For substances which limit is "Not Detected", the compliance is based on the 1st migration test result if it is detected.

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Simulant Used	Test Condition	Result (mg/dm ²)			Reportin g Limit (mg/dm ²)	Permissible Limit (mg/dm ²)
		B1				
		1 st migration	2 nd migration	3 rd migration		
10% Ethanol (V/V) Aqueous Solution	10 days at 40°C	ND	ND	ND	3.0	10
3% Acetic Acid (W/V) Aqueous Solution	10 days at 40°C	ND	ND	ND	3.0	10
Stability^		Yes			--	--
Comment	--	Pass			--	--

Note : 1. mg/dm² = milligram per square decimeter

2. °C = degree Celsius

3. ND = Not Detected

4. Permissible Limit is according to Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments.

Remark:

- Analytical tolerance of evaporable simulants is 2mg/dm².
- Test condition, simulant were specified by client.
- The ratio of surface area to volume ratio is 1,91 dm² per 1 kg of foodstuff in contact with.
- The volume of simulant used is 0.2 L.
- [^] = Stability trend is based on the result of the material from first to third migration test as per described in Commission Regulation (EU) No 10/2011 of 14 January 2011 Annex V for repeated use articles.
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Simulant Used	Test Condition	Result (mg/dm ²)			Reportin g Limit (mg/dm ²)	Permissible Limit (mg/dm ²)
		C1				
		1 st migration	2 nd migration	3 rd migration		
10% Ethanol (V/V) Aqueous Solution	2 hours at 70°C	ND	ND	ND	3.0	10
3% Acetic Acid (W/V) Aqueous Solution	2 hours at 70°C	ND	ND	ND	3.0	10
Stability^		Yes			--	--
Comment	--	Pass			--	--

Note : 1. mg/dm² = milligram per square decimeter

2. °C = degree Celsius

3. ND = Not Detected

4. Permissible Limit is according to Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments.

Remark:

- Analytical tolerance of evaporable simulants is 2mg/dm².
- Test condition, simulant were specified by client.
- The ratio of surface area to volume ratio is 1,34 dm² per 1 kg of foodstuff in contact with.
- The volume of simulant used is 0.2 L.
- [^] = Stability trend is based on the result of the material from first to third migration test as per described in Commission Regulation (EU) No 10/2011 of 14 January 2011 Annex V for repeated use articles.
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Testing as per Commission Regulation (EU) No 10/2011**Plastic – Overall migration¹**

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 (1st + 2nd + 3rd Migration); EN 1186-3:2022 Test methods for overall migration in evaporable simulants by total immersion

Simulant Used	Test Condition	Result (mg/dm ²)			Reportin g Limit (mg/dm ²)	Permissible Limit (mg/dm ²)
		<u>B2</u>				
		1 st migration	2 nd migration	3 rd migration		
10% Ethanol (V/V) Aqueous Solution	10 days at 40°C	ND	ND	ND	3.0	10
3% Acetic Acid (W/V) Aqueous Solution	10 days at 40°C	ND	ND	ND	3.0	10
Stability^		Yes			--	--
Comment	--	Pass			--	--

Note : 1. mg/dm² = milligram per square decimeter

2. °C = degree Celsius

3. ND = Not Detected

4. Permissible Limit is according to Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments.

Remark:

- Analytical tolerance of evaporable simulants is 2mg/dm².
- Test condition, simulant were specified by client.
- The ratio of surface area to volume is 6 dm² per 1 kg of foodstuff in contact with.
- [^] = Stability trend is based on the result of the material from first to third migration test as per described in Commission Regulation (EU) No 10/2011 of 14 January 2011 Annex V for repeated use articles.
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Simulant Used	Test Condition	Result (mg/dm ²)			Reporting Limit (mg/dm ²)	Permissibl e Limit (mg/dm ²)
		A1				
		1 st migration	2 nd migration	3 rd migration		
95% Ethanol	10 days at 40 °C	ND	ND	ND	3.0	10
Isooctane	2 day at 20°C (10 days at 40 °C)	ND	ND	ND	3.0	10
Stability^		Yes			--	--
Comment	--	PASS			--	--

Note : 1. mg/dm² = milligram per square decimeter
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- The volume of simulant used is 0.3 L.
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Simulant Used	Test Condition	Result (mg/dm ²)			Reporting Limit (mg/dm ²)	Permissible Limit (mg/dm ²)
		B1				
		1 st migration	2 nd migration	3 rd migration		
95% Ethanol	10 days at 40 °C	ND	ND	ND	3.0	10
Isooctane	2 day at 20°C (10 days at 40 °C)	3,2	4,0	ND	3.0	10
Stability^		Yes			--	--
Comment	--	PASS			--	--

Note : 1. mg/dm² = milligram per square decimeter
 2. °C = degree Celsius
 3. ND = Not Detected
 4. Permissible Limit is according to Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments.

Remark:

1. Analytical tolerance of evaporable simulants is 2mg/dm².
2. Test condition, simulant were specified by client.
3. The ratio of surface area to volume ratio is 1,91 dm² per 1 kg of foodstuff in contact with.
4. The volume of simulant used is 0.2 L.
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Simulant Used	Test Condition	Result (mg/dm ²)			Reporting Limit (mg/dm ²)	Permissibl e Limit (mg/dm ²)
		B2				
		1 st migration	2 nd migration	3 rd migration		
95% Ethanol	10 days at 40 °C	ND	ND	ND	3.0	10
Isooctane	2 day at 20°C (10 days at 40 °C)	5,7	ND	ND	3.0	10
Stability^		Yes			--	--
Comment	--	PASS			--	--

Note : 1. mg/dm² = milligram per square decimeter
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- The compliance is based on the stability trend and 3rd migration result. For substances which limit is "Not Detected", the compliance is based on the 1st migration test result if it is detected.

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Unless otherwise requested SGS applies shared risk decision rule.

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In this Test Report tests marked (1) are included in the IAS Accreditation Scope of this Laboratory.

TEST REPORT Job No./Report No TR2253535-RV1 Date: 10 March 2023 Page 11 of 32**Testing as per Commission Regulation (EU) No 10/2011****Plastic – Overall migration¹**

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 (1st + 2nd + 3rd Migration); EN 1186-14:2002 substitute test.

Simulant Used	Test Condition	Result (mg/dm ²)			Reporting Limit (mg/dm ²)	Permissibl e Limit (mg/dm ²)
		C1				
		1 st migration	2 nd migration	3 rd migration		
95% Ethanol	2 hours at 50 °C (2 hours at 70 °C)	ND	ND	ND	3.0	10
Isooctane	30 Minutes at 40°C (2 hours at 70 °C)	ND	ND	ND	3.0	10
Stability^		Yes			--	--
Comment	--	PASS			--	--

Note : 1. mg/dm² = milligram per square decimeter
 2. °C = degree Celsius
 3. ND = Not Detected
 4. Permissible Limit is according to Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments.

Remark:

1. Analytical tolerance of evaporable simulants is 2mg/dm².
2. Test condition, simulant were specified by client.
3. The ratio of surface area to volume ratio is 1,34 dm² per 1 kg of foodstuff in contact with.
4. The volume of simulant used is 0.2 L.
5. ^ = Stability trend is based on the result of the material from first to third migration test as per described in Commission Regulation (EU) No 10/2011 of 14 January 2011 Annex V for repeated use articles.
6. The compliance is based on the stability trend and 3rd migration result. For substances which limit is "Not Detected", the compliance is based on the 1st migration test result if it is detected.

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In this Test Report tests marked (1) are included in the IAS Accreditation Scope of this Laboratory.

TEST REPORT Job No./Report No TR2253535-RV1 Date: 10 March 2023 Page 12 of 32**Article 3 of European Regulation No. 1935/2004**

Sensory Examination – Odour and Taste Test

Method: With reference to DIN10955: 2004

Simulant Used	Test Item	Test Condition	Result^	Maximum Permissible Limit
			A1	
Water	Sensorial examination odour	40°C for 10 days	0	≤2,5
	Sensorial examination taste		0	≤2,5
Conclusion			PASS	--

Note: 1. Intensity scale (rounded at 0.5):

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

2. Permissible Limit is according to German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 & 31 with Amendments.

3. No of panelist: 6

Remark:

- * – Significant physical change of appearance on test media was observed.
- [^] -- Result referring to median for 6 panelist

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In this Test Report tests marked (1) are included in the IAS Accreditation Scope of this Laboratory.

TEST REPORT Job No./Report No TR2253535-RV1 Date: 10 March 2023 Page 13 of 32**Article 3 of European Regulation No. 1935/2004**

Sensory Examination – Odour and Taste Test

Method: With reference to DIN10955: 2004

Simulant Used	Test Item	Test Condition	Result^	Maximum Permissible Limit
			B1,B2	
Water	Sensorial examination odour	40°C for 10 days	0	≤2,5
	Sensorial examination taste		1,0	≤2,5
Conclusion			PASS	--

Note: 1. Intensity scale (rounded at 0.5):

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

2. Permissible Limit is according to German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 & 31 with Amendments.

3. No of panelist: 6

Remark:

- * – Significant physical change of appearance on test media was observed.
- [^] -- Result referring to median for 6 panelist

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TEST REPORT Job No./Report No TR2253535-RV1 Date: 10 March 2023 Page 14 of 32**Article 3 of European Regulation No. 1935/2004**

Sensory Examination – Odour and Taste Test

Method: With reference to DIN10955: 2004

Simulant Used	Test Item	Test Condition	Result^	Maximum Permissible Limit
			C1	
Water	Sensorial examination odour	70°C for 2 hours	0	≤2,5
	Sensorial examination taste		0	≤2,5
Conclusion			PASS	--

Note: 1. Intensity scale (rounded at 0.5):

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

2. Permissible Limit is according to German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 & 31 with Amendments.

3. No of panelist: 6

Remark:

- * – Significant physical change of appearance on test media was observed.
- [^] -- Result referring to median for 6 panelist

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In this Test Report tests marked (1) are included in the IAS Accreditation Scope of this Laboratory.

TEST REPORT Job No./Report No TR2253535-RV1 Date: 10 March 2023 Page 15 of 32**Testing as per Commission Regulation (EU) No 10/2011****Plastic – Specific Migration of Heavy Metals¹**

Method: With reference to EN 13130-1:2004. Analysis was performed by ICP-MS / ICP-OES.

Simulant Used: 3% acetic acid (w/v) in aqueous solution, article filling method

Test Condition: 40°C for 10 days (1st + 2nd + 3rd migration);

Test Item	Result (mg/kg)			Reporting Limit (mg/kg)	Permissible Limit (mg/kg)
	A1				
	1 st migration	2 nd migration	3 rd migration		
Aluminium	ND	ND	ND	0.1	1
Antimony	ND	ND	ND	0.01	0.04
Arsenic	ND	ND	ND	0.01	0.01
Barium	ND	ND	ND	0.25	1
Cadmium	ND	ND	ND	0.002	0.002
Chromium	ND	ND	ND	0.01	0.01
Cobalt	ND	ND	ND	0.01	0.05
Copper	ND	ND	ND	0.25	5
Iron	ND	ND	ND	5	48
Lead	ND	ND	ND	0.01	0.01
Lithium	ND	ND	ND	0.1	0.6
Manganese	ND	ND	ND	0.1	0.6
Mercury	ND	ND	ND	0.01	0.01
Nickel	ND	ND	ND	0.01	0.02
Zinc	ND	ND	ND	0.5	5
Europium	ND	ND	ND	0.025	0.05
Gadolinium	ND	ND	ND	0.025	
Lanthanum	ND	ND	ND	0.025	
Terbium	ND	ND	ND	0.025	
Stability^	Yes			--	--
Comment	Pass			--	--

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In this Test Report tests marked (1) are included in the IAS Accreditation Scope of this Laboratory.

TEST REPORT Job No./Report No TR2253535-RV1 Date: 10 March 2023 Page 16 of 32

- Note : 1. mg/kg = milligram per kilogram of foodstuff in contact with
2. °C = degree Celsius
3. ND = Not Detected
4. Permissible Limit is according to Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments.

Remark:

1. Analytical tolerance of evaporable simulants is 2mg/dm².
2. Test condition, simulant were specified by client.
3. The ratio of surface area to volume ratio is 2,66 dm² per 1 kg of foodstuff in contact with.
4. The volume of simulant used is 0.3 L.
5. ^ = Stability trend is based on the result of the material from first to third migration test as per described in Commission Regulation (EU) No 10/2011 of 14 January 2011 Annex V for repeated use articles.
6. The compliance is based on the stability trend and 3rd migration result. For substances which limit is "Not Detected", the compliance is based on the 1st migration test result if it is detected.

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In this Test Report tests marked (1) are included in the IAS Accreditation Scope of this Laboratory.

TEST REPORT Job No./Report No TR2253535-RV1 Date: 10 March 2023 Page 17 of 32**Testing as per Commission Regulation (EU) No 10/2011****Plastic – Specific Migration of Heavy Metals¹**

Method: With reference to EN 13130-1:2004. Analysis was performed by ICP-MS / ICP-OES.

Simulant Used: 3% acetic acid (w/v) in aqueous solution, article filling method

Test Condition: 40°C for 10 days (1st + 2nd + 3rd migration);

Test Item	Result (mg/kg)			Reporting Limit (mg/kg)	Permissible Limit (mg/kg)
	B1				
	1 st migration	2 nd migration	3 rd migration		
Aluminium	ND	ND	ND	0.1	1
Antimony	ND	ND	ND	0.01	0.04
Arsenic	ND	ND	ND	0.01	0.01
Barium	ND	ND	ND	0.25	1
Cadmium	ND	ND	ND	0.002	0.002
Chromium	ND	ND	ND	0.01	0.01
Cobalt	ND	ND	ND	0.01	0.05
Copper	ND	ND	ND	0.25	5
Iron	ND	ND	ND	5	48
Lead	ND	ND	ND	0.01	0.01
Lithium	ND	ND	ND	0.1	0.6
Manganese	ND	ND	ND	0.1	0.6
Mercury	ND	ND	ND	0.01	0.01
Nickel	ND	ND	ND	0.01	0.02
Zinc	ND	ND	ND	0.5	5
Europium	ND	ND	ND	0.025	0.05
Gadolinium	ND	ND	ND	0.025	
Lanthanum	ND	ND	ND	0.025	
Terbium	ND	ND	ND	0.025	
Stability^	Yes			--	--
Comment	Pass			--	--

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In this Test Report tests marked (1) are included in the IAS Accreditation Scope of this Laboratory.

TEST REPORT Job No./Report No TR2253535-RV1 Date: 10 March 2023 Page 18 of 32

- Note : 1. mg/kg = milligram per kilogram of foodstuff in contact with
2. °C = degree Celsius
3. ND = Not Detected
4. Permissible Limit is according to Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments.

Remark:

1. Analytical tolerance of evaporable simulants is 2mg/dm².
2. Test condition, simulant were specified by client.
3. The ratio of surface area to volume ratio is 1,91 dm² per 1 kg of foodstuff in contact with.
4. The volume of simulant used is 0.2 L.
5. ^ = Stability trend is based on the result of the material from first to third migration test as per described in Commission Regulation (EU) No 10/2011 of 14 January 2011 Annex V for repeated use articles.
6. The compliance is based on the stability trend and 3rd migration result. For substances which limit is "Not Detected", the compliance is based on the 1st migration test result if it is detected.

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In this Test Report tests marked (1) are included in the IAS Accreditation Scope of this Laboratory.

TEST REPORT Job No./Report No TR2253535-RV1 Date: 10 March 2023 Page 19 of 32**Testing as per Commission Regulation (EU) No 10/2011****Plastic – Specific Migration of Heavy Metals¹**

Method: With reference to EN 13130-1:2004. Analysis was performed by ICP-MS / ICP-OES.

Simulant Used: 3% acetic acid (w/v) in aqueous solution, total immersion method

Test Condition: 40°C for 10 days (1st + 2nd + 3rd migration);

Test Item	Result (mg/kg)			Reporting Limit (mg/kg)	Permissible Limit (mg/kg)
	B2				
	1 st migration	2 nd migration	3 rd migration		
Aluminium	ND	ND	ND	0.1	1
Antimony	ND	ND	ND	0.01	0.04
Arsenic	ND	ND	ND	0.01	0.01
Barium	ND	ND	ND	0.25	1
Cadmium	ND	ND	ND	0.002	0.002
Chromium	ND	ND	ND	0.01	0.01
Cobalt	ND	ND	ND	0.01	0.05
Copper	ND	ND	ND	0.25	5
Iron	ND	ND	ND	5	48
Lead	ND	ND	ND	0.01	0.01
Lithium	ND	ND	ND	0.1	0.6
Manganese	ND	ND	ND	0.1	0.6
Mercury	ND	ND	ND	0.01	0.01
Nickel	ND	ND	ND	0.01	0.02
Zinc	ND	ND	ND	0.5	5
Europium	ND	ND	ND	0.025	0.05
Gadolinium	ND	ND	ND	0.025	
Lanthanum	ND	ND	ND	0.025	
Terbium	ND	ND	ND	0.025	
Stability^	Yes			--	--
Comment	Pass			--	--

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In this Test Report tests marked (1) are included in the IAS Accreditation Scope of this Laboratory.

TEST REPORT Job No./Report No TR2253535-RV1 Date: 10 March 2023 Page 20 of 32

- Note : 1. mg/kg = milligram per kilogram of foodstuff in contact with
2. °C = degree Celsius
3. ND = Not Detected
4. Permissible Limit is according to Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments.

Remark:

1. Analytical tolerance of evaporable simulants is 2mg/dm².
2. Test condition, simulant were specified by client.
3. The ratio of surface area to volume is 6 dm² per 1 kg of foodstuff in contact with.
4. ^ = Stability trend is based on the result of the material from first to third migration test as per described in Commission Regulation (EU) No 10/2011 of 14 January 2011 Annex V for repeated use articles.
5. The compliance is based on the stability trend and 3rd migration result. For substances which limit is "Not Detected", the compliance is based on the 1st migration test result if it is detected.

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In this Test Report tests marked (1) are included in the IAS Accreditation Scope of this Laboratory.

TEST REPORT Job No./Report No TR2253535-RV1 Date: 10 March 2023 Page 21 of 32**Testing as per Commission Regulation (EU) No 10/2011****Plastic – Specific Migration of Heavy Metals¹**

Method: With reference to EN 13130-1:2004. Analysis was performed by ICP-MS / ICP-OES.

Simulant Used: 3% acetic acid (w/v) in aqueous solution, article filling method

Test Condition: 70°C for 2 houes (1st + 2nd + 3rd migration);

Test Item	Result (mg/kg)			Reporting Limit (mg/kg)	Permissible Limit (mg/kg)
	C1				
	1 st migration	2 nd migration	3 rd migration		
Aluminium	ND	ND	ND	0.1	1
Antimony	ND	ND	ND	0.01	0.04
Arsenic	ND	ND	ND	0.01	0.01
Barium	ND	ND	ND	0.25	1
Cadmium	ND	ND	ND	0.002	0.002
Chromium	ND	ND	ND	0.01	0.01
Cobalt	ND	ND	ND	0.01	0.05
Copper	ND	ND	ND	0.25	5
Iron	ND	ND	ND	5	48
Lead	ND	ND	ND	0.01	0.01
Lithium	ND	ND	ND	0.1	0.6
Manganese	ND	ND	ND	0.1	0.6
Mercury	ND	ND	ND	0.01	0.01
Nickel	ND	ND	ND	0.01	0.02
Zinc	ND	ND	ND	0.5	5
Europium	ND	ND	ND	0.025	0.05
Gadolinium	ND	ND	ND	0.025	
Lanthanum	ND	ND	ND	0.025	
Terbium	ND	ND	ND	0.025	
Stability^	Yes			--	--
Comment	Pass			--	--

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In this Test Report tests marked (1) are included in the IAS Accreditation Scope of this Laboratory.

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- Note : 1. mg/kg = milligram per kilogram of foodstuff in contact with
2. °C = degree Celsius
3. ND = Not Detected
4. Permissible Limit is according to Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments.

Remark:

1. Analytical tolerance of evaporable simulants is 2mg/dm².
2. Test condition, simulant were specified by client.
3. The ratio of surface area to volume ratio is 1,34 dm² per 1 kg of foodstuff in contact with.
4. The volume of simulant used is 0.2 L.
5. ^ = Stability trend is based on the result of the material from first to third migration test as per described in Commission Regulation (EU) No 10/2011 of 14 January 2011 Annex V for repeated use articles.
6. The compliance is based on the stability trend and 3rd migration result. For substances which limit is "Not Detected", the compliance is based on the 1st migration test result if it is detected.

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Unless otherwise requested SGS applies shared risk decision rule.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested. Unless further specified in an individual contract the sample(s) retention time is 30 days."

In this Test Report tests marked (1) are included in the IAS Accreditation Scope of this Laboratory.

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Specific Migration of Primary Aromatic Amine¹

Method: With reference to EN13130-1:2004 and EU JRC guideline EUR 24815 EN 2011. Analysis was performed by LC-MS/MS.

Simulant Used: 3% acetic acid (w/v) in aqueous solution, article filling method

Test Condition: 40°C for 10 days (1st + 2nd + 3rd Migration);

Test Item	Result (mg/kg)			Reporting Limit (mg/kg)	Permissible Limit (mg/kg)
	1 st Migration	2 nd Migration	3 rd Migration		
4-Aminobiphenyl	ND	ND	ND	0.002	0.002
Benzidine	ND	ND	ND	0.002	0.002
4-Chloro-o-toluidine	ND	ND	ND	0.002	0.002
2-Naphthylamine	ND	ND	ND	0.002	0.002
o-Aminoazotoluene	ND	ND	ND	0.002	0.002
5-Nitro-o-toluidine	ND	ND	ND	0.002	0.002
4-Chloroaniline	ND	ND	ND	0.002	0.002
4-Methoxy-m-phenylenediamine	ND	ND	ND	0.002	0.002
4,4'-Methylenedianiline	ND	ND	ND	0.002	0.002
3,3'-Dichlorobenzidine	ND	ND	ND	0.002	0.002
3,3'-Dimethoxybenzidine	ND	ND	ND	0.002	0.002
3,3'-Dimethylbenzidine	ND	ND	ND	0.002	0.002
4,4'-Methylenedi-o-toluidine	ND	ND	ND	0.002	0.002
6-Methoxy-m-toluidine	ND	ND	ND	0.002	0.002
4,4'-Methylene-bis-(2-chloro-aniline)	ND	ND	ND	0.002	0.002
4,4'-Oxydianiline	ND	ND	ND	0.002	0.002
4,4'-Thiodianiline	ND	ND	ND	0.002	0.002
o-Toluidine	ND	ND	ND	0.002	0.002
2,4-Toluenediamine	ND	ND	ND	0.002	0.002
2,4,5-Trimethylaniline	ND	ND	ND	0.002	0.002
o-Anisidine	ND	ND	ND	0.002	0.002
4-Amino azobenzene	ND	ND	ND	0.002	0.002
1,3-Phenylenediamine	ND	ND	ND	0.002	0.002
Primary Aromatic Amine (Other)	ND	ND	ND	--	0.01 (Sum)
Aniline	ND	ND	ND	0.002	--

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Unless otherwise requested SGS applies shared risk decision rule.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested. Unless further specified in an individual contract the sample(s) retention time is 30 days."

In this Test Report tests marked (1) are included in the IAS Accreditation Scope of this Laboratory.

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m-Toluidine	ND	ND	ND	0.002	--
p-Toluidine	ND	ND	ND	0.002	--
2,6-Toluenediamine	ND	ND	ND	0.002	--
m-Anisidine	ND	ND	ND	0.002	--
3-Chloroaniline	ND	ND	ND	0.010	--
1,4-Phenylenediamine	ND	ND	ND	0.002	--
1,2-Phenylenediamine	ND	ND	ND	0.002	--
2,6-Dimethylaniline	ND	ND	ND	0.002	--
2,4-Dimethylaniline	ND	ND	ND	0.002	--
1,5-Diaminonaphthalene	ND	ND	ND	0.002	--
4-Ethoxyaniline	ND	ND	ND	0.002	--
3-Amino-4-methoxybenzanilide	ND	ND	ND	0.002	--
2-Methoxy-4-nitroaniline	ND	ND	ND	0.005	--
5-Amino-6-methylbenzimidazolone	ND	ND	ND	0.005	--
4-Aminobenzamide	ND	ND	ND	0.005	--
3-Amino-4-methylbenzamide	ND	ND	ND	0.002	--
2-Chloroaniline	ND	ND	ND	0.010	--
2-Ethoxyaniline	ND	ND	ND	0.005	--
5-Chloro-2-methylaniline	ND	ND	ND	0.005	--
1,3-Diiminoisoindoline	ND	ND	ND	0.010	--
5-Chloro-2-methoxyaniline	ND	ND	ND	0.005	--
2,5-Dichloroaniline	ND	ND	ND	0.010	--
2-Chloro-4-nitroaniline	ND	ND	ND	0.005	--
4-Chlor-2,5-dimethoxyaniline	ND	ND	ND	0.005	--
2,4,5-Trichloroaniline	ND	ND	ND	0.010	--
4-Chlor-3-methoxyaniline	ND	ND	ND	0.005	--
2,4-Dinitroaniline	ND	ND	ND	0.005	--
4-Aminotoluene-3-sulfonic acid	ND	ND	ND	0.005	--
2-Amino-1-naphthalenesulfonic acid	ND	ND	ND	0.005	--
Dimethyl aminoterephthalate	ND	ND	ND	0.002	--
p-Anisidine	ND	ND	ND	0.002	--
3,4-Dichloroaniline	ND	ND	ND	0.002	--
1-Naphthylamine	ND	ND	ND	0.002	--
2-Aminobiphenyl	ND	ND	ND	0.002	--
Butyl Anthranilate	ND	ND	ND	0.002	--
2,4-Diaminodiphenylmethane	ND	ND	ND	0.002	--
2-Amino-5-methylbenzoic acid	ND	ND	ND	0.002	--

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Stability [^]	Yes	--	--
Comment	PASS	--	--

Note :

1. mg/kg = milligram per kilogram of foodstuff in contact with
2. °C = degree Celsius
3. ND = Not Detected
4. Permissible Limit is according to Commission Regulation (EU) 10/2011 of 14 January 2011

Remark:

1. Analytical tolerance of evaporable simulants is 2mg/dm².
2. Test condition, simulant were specified by client.
3. The ratio of surface area to volume ratio is 2,66 dm² per 1 kg of foodstuff in contact with.
4. The volume of simulant used is 0.3 L.
5. ^ = Stability trend is based on the result of the material from first to third migration test as per described in Commission Regulation (EU) No 10/2011 of 14 January 2011 Annex V for repeated use articles.
6. The compliance is based on the stability trend and 3rd migration result. For substances which limit is "Not Detected", the compliance is based on the 1st migration test result if it is detected.

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TEST REPORT

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Specific Migration of Primary Aromatic Amine¹

Method: With reference to EN13130-1:2004 and EU JRC guideline EUR 24815 EN 2011. Analysis was performed by LC-MS/MS.

Simulant Used: 3% acetic acid (w/v) in aqueous solution, total immersion method

Test Condition: 40°C for 10 days (1st + 2nd + 3rd Migration);

Test Item	Result (mg/kg)			Reporting Limit (mg/kg)	Permissible Limit (mg/kg)
	1 st Migration	2 nd Migration	3 rd Migration		
4-Aminobiphenyl	ND	ND	ND	0.002	0.002
Benzidine	ND	ND	ND	0.002	0.002
4-Chloro-o-toluidine	ND	ND	ND	0.002	0.002
2-Naphthylamine	ND	ND	ND	0.002	0.002
o-Aminoazotoluene	ND	ND	ND	0.002	0.002
5-Nitro-o-toluidine	ND	ND	ND	0.002	0.002
4-Chloroaniline	ND	ND	ND	0.002	0.002
4-Methoxy-m-phenylenediamine	ND	ND	ND	0.002	0.002
4,4'-Methylenedianiline	ND	ND	ND	0.002	0.002
3,3'-Dichlorobenzidine	ND	ND	ND	0.002	0.002
3,3'-Dimethoxybenzidine	ND	ND	ND	0.002	0.002
3,3'-Dimethylbenzidine	ND	ND	ND	0.002	0.002
4,4'-Methylenedi-o-toluidine	ND	ND	ND	0.002	0.002
6-Methoxy-m-toluidine	ND	ND	ND	0.002	0.002
4,4'-Methylene-bis-(2-chloro-aniline)	ND	ND	ND	0.002	0.002
4,4'-Oxydianiline	ND	ND	ND	0.002	0.002
4,4'-Thiodianiline	ND	ND	ND	0.002	0.002
o-Toluidine	ND	ND	ND	0.002	0.002
2,4-Toluenediamine	ND	ND	ND	0.002	0.002
2,4,5-Trimethylaniline	ND	ND	ND	0.002	0.002
o-Anisidine	ND	ND	ND	0.002	0.002
4-Amino azobenzene	ND	ND	ND	0.002	0.002
1,3-Phenylenediamine	ND	ND	ND	0.002	0.002
Primary Aromatic Amine (Other)	ND	ND	ND	--	0.01 (Sum)
Aniline	ND	ND	ND	0.002	--

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In this Test Report tests marked (1) are included in the IAS Accreditation Scope of this Laboratory.

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m-Toluidine	ND	ND	ND	0.002	--
p-Toluidine	ND	ND	ND	0.002	--
2,6-Toluenediamine	ND	ND	ND	0.002	--
m-Anisidine	ND	ND	ND	0.002	--
3-Chloroaniline	ND	ND	ND	0.010	--
1,4-Phenylenediamine	ND	ND	ND	0.002	--
1,2-Phenylenediamine	ND	ND	ND	0.002	--
2,6-Dimethylaniline	ND	ND	ND	0.002	--
2,4-Dimethylaniline	ND	ND	ND	0.002	--
1,5-Diaminonaphthalene	ND	ND	ND	0.002	--
4-Ethoxyaniline	ND	ND	ND	0.002	--
3-Amino-4-methoxybenzanilide	ND	ND	ND	0.002	--
2-Methoxy-4-nitroaniline	ND	ND	ND	0.005	--
5-Amino-6-methylbenzimidazolone	ND	ND	ND	0.005	--
4-Aminobenzamide	ND	ND	ND	0.005	--
3-Amino-4-methylbenzamide	ND	ND	ND	0.002	--
2-Chloroaniline	ND	ND	ND	0.010	--
2-Ethoxyaniline	ND	ND	ND	0.005	--
5-Chloro-2-methylaniline	ND	ND	ND	0.005	--
1,3-Diiminoisoindoline	ND	ND	ND	0.010	--
5-Chloro-2-methoxyaniline	ND	ND	ND	0.005	--
2,5-Dichloroaniline	ND	ND	ND	0.010	--
2-Chloro-4-nitroaniline	ND	ND	ND	0.005	--
4-Chlor-2,5-dimethoxyaniline	ND	ND	ND	0.005	--
2,4,5-Trichloroaniline	ND	ND	ND	0.010	--
4-Chlor-3-methoxyaniline	ND	ND	ND	0.005	--
2,4-Dinitroaniline	ND	ND	ND	0.005	--
4-Aminotoluene-3-sulfonic acid	ND	ND	ND	0.005	--
2-Amino-1-naphthalenesulfonic acid	ND	ND	ND	0.005	--
Dimethyl aminoterephthalate	ND	ND	ND	0.002	--
p-Anisidine	ND	ND	ND	0.002	--
3,4-Dichloroaniline	ND	ND	ND	0.002	--
1-Naphthylamine	ND	ND	ND	0.002	--
2-Aminobiphenyl	ND	ND	ND	0.002	--
Butyl Anthranilate	ND	ND	ND	0.002	--
2,4-Diaminodiphenylmethane	ND	ND	ND	0.002	--
2-Amino-5-methylbenzoic acid	ND	ND	ND	0.002	--

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Stability^	Yes	--	--
Comment	PASS	--	--

Note :

1. mg/kg = milligram per kilogram of foodstuff in contact with
2. °C = degree Celsius
3. ND = Not Detected
4. Permissible Limit is according to Commission Regulation (EU) 10/2011 of 14 January 2011

Remark:

1. Test condition & simulant were specified by client.
2. The ratio of surface area to volume ratio is 6 dm² per 1 kg of foodstuff in contact with.
3. ^ = Stability trend is based on the result of the material from first to third migration test as per described in Commission Regulation (EU) No 10/2011 of 14 January 2011 Annex V for repeated use articles.
4. The compliance is based on the stability trend and 3rd migration result. For substances which limit is "Not Detected", the compliance is based on the 1st migration test result if it is detected.

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In this Test Report tests marked (1) are included in the IAS Accreditation Scope of this Laboratory.

TEST REPORT

Job No./Report No TR2253535-RV1

Date: 10 March 2023

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Specific Migration of Primary Aromatic Amine¹

Method: With reference to EN13130-1:2004 and EU JRC guideline EUR 24815 EN 2011. Analysis was performed by LC-MS/MS.

Simulant Used: 3% acetic acid (w/v) in aqueous solution, article filling method

Test Condition: 70°C for 2 hours (1st + 2nd + 3rd Migration);

Test Item	Result (mg/kg)			Reporting Limit (mg/kg)	Permissible Limit (mg/kg)
	1 st Migration	2 nd Migration	3 rd Migration		
4-Aminobiphenyl	ND	ND	ND	0.002	0.002
Benzidine	ND	ND	ND	0.002	0.002
4-Chloro-o-toluidine	ND	ND	ND	0.002	0.002
2-Naphthylamine	ND	ND	ND	0.002	0.002
o-Aminoazotoluene	ND	ND	ND	0.002	0.002
5-Nitro-o-toluidine	ND	ND	ND	0.002	0.002
4-Chloroaniline	ND	ND	ND	0.002	0.002
4-Methoxy-m-phenylenediamine	ND	ND	ND	0.002	0.002
4,4'-Methylenedianiline	ND	ND	ND	0.002	0.002
3,3'-Dichlorobenzidine	ND	ND	ND	0.002	0.002
3,3'-Dimethoxybenzidine	ND	ND	ND	0.002	0.002
3,3'-Dimethylbenzidine	ND	ND	ND	0.002	0.002
4,4'-Methylenedi-o-toluidine	ND	ND	ND	0.002	0.002
6-Methoxy-m-toluidine	ND	ND	ND	0.002	0.002
4,4'-Methylene-bis-(2-chloro-aniline)	ND	ND	ND	0.002	0.002
4,4'-Oxydianiline	ND	ND	ND	0.002	0.002
4,4'-Thiodianiline	ND	ND	ND	0.002	0.002
o-Toluidine	ND	ND	ND	0.002	0.002
2,4-Toluenediamine	ND	ND	ND	0.002	0.002
2,4,5-Trimethylaniline	ND	ND	ND	0.002	0.002
o-Anisidine	ND	ND	ND	0.002	0.002
4-Amino azobenzene	ND	ND	ND	0.002	0.002
1,3-Phenylenediamine	ND	ND	ND	0.002	0.002
Primary Aromatic Amine (Other)	ND	ND	ND	--	0.01 (Sum)
Aniline	ND	ND	ND	0.002	--

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In this Test Report tests marked (1) are included in the IAS Accreditation Scope of this Laboratory.

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m-Toluidine	ND	ND	ND	0.002	--
p-Toluidine	ND	ND	ND	0.002	--
2,6-Toluenediamine	ND	ND	ND	0.002	--
m-Anisidine	ND	ND	ND	0.002	--
3-Chloroaniline	ND	ND	ND	0.010	--
1,4-Phenylenediamine	ND	ND	ND	0.002	--
1,2-Phenylenediamine	ND	ND	ND	0.002	--
2,6-Dimethylaniline	ND	ND	ND	0.002	--
2,4-Dimethylaniline	ND	ND	ND	0.002	--
1,5-Diaminonaphthalene	ND	ND	ND	0.002	--
4-Ethoxyaniline	ND	ND	ND	0.002	--
3-Amino-4-methoxybenzanilide	ND	ND	ND	0.002	--
2-Methoxy-4-nitroaniline	ND	ND	ND	0.005	--
5-Amino-6-methylbenzimidazolone	ND	ND	ND	0.005	--
4-Aminobenzamide	ND	ND	ND	0.005	--
3-Amino-4-methylbenzamide	ND	ND	ND	0.002	--
2-Chloroaniline	ND	ND	ND	0.010	--
2-Ethoxyaniline	ND	ND	ND	0.005	--
5-Chloro-2-methylaniline	ND	ND	ND	0.005	--
1,3-Diiminoisoindoline	ND	ND	ND	0.010	--
5-Chloro-2-methoxyaniline	ND	ND	ND	0.005	--
2,5-Dichloroaniline	ND	ND	ND	0.010	--
2-Chloro-4-nitroaniline	ND	ND	ND	0.005	--
4-Chlor-2,5-dimethoxyaniline	ND	ND	ND	0.005	--
2,4,5-Trichloroaniline	ND	ND	ND	0.010	--
4-Chlor-3-methoxyaniline	ND	ND	ND	0.005	--
2,4-Dinitroaniline	ND	ND	ND	0.005	--
4-Aminotoluene-3-sulfonic acid	ND	ND	ND	0.005	--
2-Amino-1-naphthalenesulfonic acid	ND	ND	ND	0.005	--
Dimethyl aminoterephthalate	ND	ND	ND	0.002	--
p-Anisidine	ND	ND	ND	0.002	--
3,4-Dichloroaniline	ND	ND	ND	0.002	--
1-Naphthylamine	ND	ND	ND	0.002	--
2-Aminobiphenyl	ND	ND	ND	0.002	--
Butyl Anthranilate	ND	ND	ND	0.002	--
2,4-Diaminodiphenylmethane	ND	ND	ND	0.002	--
2-Amino-5-methylbenzoic acid	ND	ND	ND	0.002	--

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Stability [^]	Yes	--	--
Comment	PASS	--	--

Note :

1. mg/kg = milligram per kilogram of foodstuff in contact with
2. °C = degree Celsius
3. ND = Not Detected
4. Permissible Limit is according to Commission Regulation (EU) 10/2011 of 14 January 2011

Remark:

1. Analytical tolerance of evaporable simulants is 2mg/dm².
2. Test condition, simulant were specified by client.
3. The ratio of surface area to volume ratio is 1,34 dm² per 1 kg of foodstuff in contact with.
4. The volume of simulant used is 0.2 L.
5. ^ = Stability trend is based on the result of the material from first to third migration test as per described in Commission Regulation (EU) No 10/2011 of 14 January 2011 Annex V for repeated use articles.
6. The compliance is based on the stability trend and 3rd migration result. For substances which limit is "Not Detected", the compliance is based on the 1st migration test result if it is detected.

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End of Test Report

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