







**TEST REPORT** Job No./Report No TR2348971 Date: 17 August 2023

2023 Page 1 of 11

#### **BALONEVI SANAYI VE TİCARET A.S.**

IDOSB KADİFE CADDESİ R4 ÖZEL PARSEL NO: 1 34975 TUZLA / İSTANBUL

**TEL**: 0533 267 36 89 **FAX**: 0216 394 00 66

To the attention of Mustafa Oğuz Vanlı

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

Sample No.	Sample Description	
Α	PLATE	

Client's reference No. : TR 2348971
Colour : MIXED COLOR

Manufacturer : BALONEVİ SANAYİ VE TİCARET A.Ş.

Sample Receiving Date : 04 August 2023

Test Performing Period : 04 August 2023~17 August 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.

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# **TEST REPORT**

Job No./Report No TR2348971

Date: 17 August 2023 Page 2 of 11

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

Job No./Report No TR2348971

Date: 17 August 2023

Page 3 of 11

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.

RAVİYE MUTLU

**Customer Services Supervisor** 

Bora Şirinbilek

Hardline C&H Testing Services Manager



Sample No.	Sample Description	Material No.	Component	Material	Colour
Α	PLATE	A1	Printed inner main	Plastic	Multicolor

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**TEST REPORT** 

Job No./Report No TR2348971

Date: 17 August 2023

Page 4 of 11

## Testing as per Commission Regulation (EU) No 10/2011

# Plastic - Overall migration<sup>1</sup>

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 Migration); EN 1186-3:2022 Test methods for overall migration in evaporable simulants

Simulant Used	Test Condition	Result (mg/dm²) <u>A1</u> 1 <sup>st</sup> migration	Reporting Limit (mg/dm²)	Permissible Limit (mg/dm²)
400/ 5th and ()////	0.5	•	2.0	40
10% Ethanol (V/V)	2 hours at 70 °C	ND	3.0	10
3% Acetic Acid (W/V)	2 hours at 70 °C	ND	3.0	10
95% Ethanol	2 hours at 70 °C	ND	3.0	10
	(2 hours at 60 °C)			. •
Isooctane	2 hours at 70 °C	ND	3.0	10
Isoociano	(30 minutes at 40°C)	ND	5.0	10
Conclusion		PASS		

Note: 1. mg/dm<sup>2</sup> = 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 2 mg/dm<sup>2</sup>.
- 2.Test condition & simulant were specified by client.
- 3. The ratio of surface area to volume ratio is 2.66 dm<sup>2</sup> per 1 kg of foodstuff in contact with
- 4. The volume of simulant used is 0.2 L.

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**TEST REPORT** 

Job No./Report No TR2348971

Date: 17 August 2023

Page 5 of 11

## 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 <sup>^</sup>	Maximum
Simulant Oseu			<b>A</b> 1	Permissible Limit
Motor	Sensorial examination odour	70°C for	0	2,5
Water	Sensorial examination taste	2 hours	2	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 TR2348971

Date: 17 August 2023

Page 6 of 11

# Plastic - Specific Migration of Heavy Metals<sup>1</sup>

Method: With reference to EN 13130-1:2004 and SGS In House Method RSTS-CHEM-602-1. Analysis

was performed by ICP-MS / ICP-OES.

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

Test Condition: 70°C for 2 hours (1st migration);

Test Item	Result (mg/kg) A1	Reporting	Permissible
Test item	1 <sup>st</sup> migration	Limit (mg/kg)	Limit (mg/kg)
Aluminium	ND	0.1	1
Antimony	ND	0.01	0.04
Arsenic	ND	0.01	0.01
Barium	ND	0.25	1
Cadmium	ND	0.002	0.002
Chromium	ND	0.01	0.01
Cobalt	ND	0.01	0.05
Copper	ND	0.25	5
Iron	ND	5	48
Lead	ND	0.01	0.01
Lithium	ND	0.1	0.6
Manganese	ND	0.1	0.6
Mercury	ND	0.01	0.01
Nickel	ND	0.01	0.02
Zinc	ND	0.5	5
Europium	ND	0.025	
Gadolinium	ND	0.025	0.05
Lanthanum	ND	0.025	0.05
Terbium	ND	0.025	
Conclusion	PASS		

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**TEST REPORT** 

Job No./Report No TR2348971

Date: 17 August 2023

Page 7 of 11

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. Test condition & simulant were specified by client.
- 2. The ratio of surface area to volume ratio is 2.66 dm<sup>2</sup> per 1 kg of foodstuff in contact with.
- 3. The volume of simulant used is 0,2 L.

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**TEST REPORT** 

Job No./Report No TR2348971

Date: 17 August 2023

Page 8 of 11

# Testing as per Commission Regulation (EU) No 10/2011

# Specific Migration of Primary Aromatic Amine<sup>1</sup>

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

Test Condition: 70°C for 2 hours (1st Migration);

	Result (mg/kg)	Reporting	Permissible
Test Item	<u>A1</u>	Limit	Limit
	1 <sup>st</sup> Migration	(mg/kg)	(mg/kg)
4-Aminobiphenyl	ND	0.002	ND
Benzidine	ND	0.002	ND
4-Chloro-o-toluidine	ND	0.002	ND
2-Naphthylamine	ND	0.002	ND
o-Aminoazotoluene	ND	0.002	ND
5-Nitro-o-toluidine	ND	0.002	ND
4-Chloroaniline	ND	0.002	ND
4-Methoxy-m-phenylenediamine	ND	0.002	ND
4,4'-Methylenedianiline	ND	0.002	ND
3,3'-Dichlorobenzidine	ND	0.002	ND
3,3'-Dimethoxybenzidine	ND	0.002	ND
3,3'-Dimethylbenzidine	ND	0.002	ND
4,4'-Methylenedi-o-toluidine	ND	0.002	ND
6-Methoxy-m-toluidine	ND	0.002	ND
4,4'-Methylene-bis-(2-chloro-aniline)	ND	0.002	ND
4,4'-Oxydianiline	ND	0.002	ND
4,4'-Thiodianiline	ND	0.002	ND
o-Toluidine	ND	0.002	ND
2,4-Toluenediamine	ND	0.002	ND
2,4,5-Trimethylaniline	ND	0.002	ND
o-Anisidine	ND	0.002	ND
4-Amino azobenzene	ND	0.002	ND
1,3-Phenylenediamine	ND	0.002	ND
Primary Aromatic Amine (Other)	ND		0.01 (Sum)
Aniline	ND	0.002	

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**TEST REPORT** Job No./Report No TR2348971 Date: 17 August 2023 Page 9 of 11

	l No	1 0000	
m-Toluidine	ND	0.002	
p-Toluidine	ND	0.002	
2,6-Toluenediamine	ND	0.002	
m-Anisidine	ND	0.002	
3-Chloroaniline	ND	0.010	
1,4-Phenylenediamine	ND	0.002	
1,2-Phenylendiamine	ND	0.002	
2,6-Dimethylaniline	ND	0.002	
2,4-Dimethylaniline	ND	0.002	
1,5-Diaminonaphthalene	ND	0.002	
4-Ethoxyaniline	ND	0.002	
3-Amino-4-methoxybenzanilide	ND	0.002	
2-Methoxy-4-nitroaniline	ND	0.005	
5-Amino-6-methylbenzimidazolone	ND	0.005	
4-Aminobenzamide	ND	0.005	
3-Amino-4-methylbenzamide	ND	0.002	
2-Chloraniline	ND	0.010	
2-Ethoxyaniline	ND	0.005	
5-Chloro-2-methylaniline	ND	0.005	
1,3-Diiminoisoindoline	ND	0.010	
5-Chloro-2-methoxylaniline	ND	0.005	
2,5-Dichloroaniline	ND	0.010	
2-Chloro-4-nitroaniline	ND	0.005	
4-Chlor-2,5-dimethoxyaniline	ND	0.005	
2,4,5-Trichloroaniline	ND	0.010	
4-Chlor-3-methoxyaniline	ND	0.005	
2,4-Dinitroaniline	ND	0.005	
4-Aminotoluene-3-sulfonic acid	ND	0.005	
2-Amino-1-naphthalenesulfonic acid	ND	0.005	
Dimethyl aminoterephthalate	ND	0.002	
p-Anisidine	ND	0.002	
3,4-Dichloroaniline	ND	0.002	
1-Naphthylamine	ND	0.002	
2-Aminobiphenyl	ND	0.002	
Butyl Anthranilate	ND	0.002	
2,4-Diaminodiphenylmethane	ND	0.002	
2-Amino-5-methylbenzoic acid	ND	0.002	

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TEST REPORT Job No./Report No TR2348971

Date: 17 August 2023

Page 10 of 11

4,4'- Methylen-bis(3-chloro-2,6-di ethylanilne)	ND	0.002	No Requirement
2,4-Diamino-6-phenyl-1,3,5-triazine	ND	0.002	No Requirement
Comment	PASS		

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**TEST REPORT** 

Job No./Report No TR2348971

Date: 17 August 2023 Page 11 of 11



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