

TEST REPORT

Job No./Report No TR2348969

Date: 17 August 2023

TL-543

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BALONEVİ SANAYİ VE TİCARET A.Ş.

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
A	Cup

Client's reference No. : TR 2348969
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 Parameters	Result
Chemical tests	A1
FCM - Overall Migration of Total Non-volatile Substance in Plastic Materials - Simulant A (Ethanol 10%)	M
FCM - Overall Migration of Total Non-volatile Substance in Plastic Materials - Simulant B (Acetic acid 3%)	M
FCM - Overall Migration of Total Non-volatile Substance in Plastic Materials (95% Ethanol)	M
FCM - Overall Migration of Total Non-volatile Substance in Plastic Materials (Isooctane)	M
FCM - Sensory Analysis for Packaging Materials and Packages for Food Products	M
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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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

Component List / List of Materials for Chemical Test

Sample No.	Sample Description	Material No.	Component	Material	Colour
A	Cup	A1	Inner main	Plastic	Beige

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

Simulant Used	Test Condition	Result (mg/dm ²)	Reporting Limit (mg/dm ²)	Permissible Limit (mg/dm ²)
		A1		
		1 st migration		
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 (2 hours at 60 °C)	ND	3.0	10
Isooctane	2 hours at 70 °C (30 minutes at 40°C)	ND	3.0	10
Conclusion	--	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 2 mg/dm².
2. Test condition & simulant were specified by client.
3. The ratio of surface area to volume ratio is 1.71 dm² per 1 kg of foodstuff in contact with days."
4. The volume of simulant used is 0.2 L.

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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	70°C for 2 hours	1	2,5
	Sensorial examination taste		1.5	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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Plastic – Specific Migration of Heavy Metals¹

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)	Reporting Limit (mg/kg)	Permissible Limit (mg/kg)
	A1		
	1 st migration		
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	0.05
Gadolinium	ND	0.025	
Lanthanum	ND	0.025	
Terbium	ND	0.025	
Conclusion	PASS	--	--

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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. Test condition & simulant were specified by client.
2. The ratio of surface area to volume ratio is 1.71 dm² per 1 kg of foodstuff in contact with.
3. The volume of simulant used is 0,2 L.

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

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

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

Test Item	Result (mg/kg)	Reporting Limit (mg/kg)	Permissible Limit (mg/kg)
	A1 1 st Migration		
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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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-Phenylenediamine	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-Diiminoisindoline	ND	0.010	--
5-Chloro-2-methoxyaniline	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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4,4'- Methylene-bis(3-chloro-2,6-di ethylaniline)	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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Remark:

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3. The volume of simulant used is 0,2 L.

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End of Test Report

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