





AB-0566-T G23-13189/1

05-23

REPORT of EXAMINATION and ANALYSIS

Sensory Test (Odour and Taste)- Simulant Water

Test method: EN 1230-2

Test Condition: Water, 2 hours at 70 °C

-	Conc.			
Tested Item(s)	Parameter	Limit	Unit	
	Change of Odour	≤2.0	-	Pass
	Change of Taste	≤2.0		Pass

Off- odour in comparison with control

0 = no perceptible off - odour

1 = off - odour just perceptible (but still difficult to define)

2= slight off- odour

3 = distinct off - odour

4 = strong off - odour

Off- taste in comparison with control

0 = no perceptible off - taste

1 =off -taste just perceptible (but still difficult to define)

2= slight off- taste

3 = distinct off - taste

4 = strong off - taste

Koray TAŞKIN Che. Lab. Mgr. e-signed

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Bülent TATLISÖZ Mgr. of Sample Accept. and Report e-signed







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REPORT of EXAMINATION and ANALYSIS

Specific Migration of Primary Aromatic Amine for Plastic Materials in Contact with Foodstuffs - Commission Regulation (EU) No.2020/1245

- COMMINISSION REAG	ation (La) molecular
Test Condition: 3%	Acetic acid: 70 °C, 2 hrs

st Condition : 3% Acetic acid : 70 °C , 2 hrs Parameter	Unit	Result	Maximum Allowable Limit	
Food contact surface area	dm²	2,72	-	
Volume of simulant used	mL _	300	-	
Aniline Aniline	mg / kg	ND	Absent	
2,4-Dimethylaniline/2,4-xylidine	mg / kg	<u>ND</u>	_	
2,6-Dimethylaniline/ 2,6- xylidine	mg / kg	ND	1	
m-Phenylenediamine / 1,3 -phenylenediamine	mg/kg	ND		
p-Phenylenediamine / 1,4 - phenylenediamine	mg / kg	ND		
2,6 - Toluenediamine	mg / kg	<u>ND</u>		
4-aminobiphenyl / 4- biphenylamine	mg / kg	ND_		
o-anisidine / 2- methoxyaniline	mg / kg	ND		
Benzidine	mg / kg	ND		
4-Chloro-aniline / p- chloroaniline	mg / kg	ND		
4-Chloro-o-toluidine	mg / kg	ND_		
4,4'-Diaminodiphenylether / 4,4'-oxydianiline	mg/kg	ND		
4,4'-Methylenedianiline / 4,4'-diamino-diphenylmethane	mg / kg	ND		
4,4'-Methylenedi-o-toluidine / 3,3'-dimethyl-4,4'- diaminodiphenylmethane	mg / kg	ND_		
2-Methoxy-5-methylaniline / p- cresidine	mg / kg	ND		
4-Methoxy-m-phenylenediamine / 2,4-diaminoanisole	mg / kg	ND		
o-Toluidine / 2- aminotoluene	mg/kg	ND	_	
2,4-Toluenediamine	mg / kg	ND		
3,3-Dimethylbenzidine	mg / kg	ND	_	
2,4,5- Trimethylaniline	mg / kg	ND	_	
m- Phenylenediamine / 1,3- phenylenediamine	mg/kg	ND _		
4,4'-methylene-bis-(2-chloro-aniline) / 2,2'-dichloro-4,4'-methylene-dianiline	mg/kg	ND		
Conclusion		PASS		

Note	mg / kg = miligram per kilogram of foodstuff in contact with
Meth	ed EUR 24815 EN 2011 - LC-MS/MS analysis.
Remark(s) 1.	The migration test is carried out according to EC Regulation No. 2020/1245
	Selected test, test simulant, test condition were specified by client.

Koray TAŞKIN Che. Lab. Mgr. e-signed A

ORATUNA Confirmable 18.05.2023 NANOLAB 0 MERKEZ Yunus Emre YILI Lab, Manager e- signed

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REPORT of EXAMINATION and ANALYSIS

PHTHALATES*

Test Method: BS EN 13130

Solvent extraction and analysis by Gas Chromatograph Mass Spectrometer (GC-MSMS)

	Res	Conclusion		
Tested Item(s)	Detected Analytes	Conc.	Unit	
rested item(s)	DBP (Dibutylphthalate)	ND	mg /kg	PASS
	BBP (Butylbenzylphthalate)	ND	mg /kg	PASS
	DEHP (Di(2-ethylhexyl)-phthalate)	ND	mg /kg	PASS
	DIDP (Diisodecylphthalate)	ND	mg /kg	PASS
	DINP (Di-iso-nonylphthalate)	ND	mg /kg	PASS
	Overall Conclusion	-		PASS

Note(s)	ND = Not detected
	mg /kg = milligram per kilogram
	Conc. = Concentration
Limit	500mg/kg (DBP) - 1000 mg /kg
Remark(s) 1	Recommended Max. limit specified by entries 51 and 52 of Regulation (EC) No 552/2009 amending Annex XVII of REACH Regulation (EC) No 1907/2006 (previously restricted under Directive 2005/84/EC.

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REPORT of EXAMINATION and ANALYSIS

Specific Migration of heavy Metals for Plastic Materials in Contact with Foodstuffs - Commission Regulation (EU) No.2020/ 1245* Test Condition: %3 Acetic acid: 70°C, 2 hours, 3 cycle

Parameter	Simulant Used	Unit	Results	Maximum Allowable Limit
Food contact surface area	2,72	dm ²		
Volume of simulant used	300	mL		
Aluminum (AI)	3% Acetic acid	mg/kg	ND	1
Barium (Ba)	3% Acetic acid	mg/kg	ND	1
Cobalt(Co)	3% Acetic acid	mg/kg	ND	0.05
Copper (Cu)	3% Acetic acid	mg/kg	ND	5
Iron (Fe)	3% Acetic acid	mg/kg	ND	48
Lithium (Li)	3% Acetic acid	mg/kg	ND	0.6
Manganese (Mn)	3% Acetic acid	mg/kg	ND	0.6
Zinc (Zn)	3% Acetic acid	mg/kg	ND	5
Nickel(Ni)	3% Acetic acid	mg/kg	ND	0.02
Antimony(Sb)	3% Acetic acid	mg/kg	ND	0.04
Europium(Eu)	3% Acetic acid	mg/kg	ND	0.05
Gadolinium (Gd)	3% Acetic acid	mg/kg	ND	0.05
Lanthanum(La)	3% Acetic acid	mg/kg	ND	0.05
Terbium (Tb)	3% Acetic acid	mg/kg	ND	0.05
Arsenic (As)	3% Acetic acid	mg/kg	ND	ND
Cadmium(Cd)	3% Acetic acid	mg/kg	ND	ND ND
Chromium (Cr)	3% Acetic acid	mg/kg	ND	ND
Lead (Pb)	3% Acetic acid	mg/kg	ND	ND
Mercury (Hg)	3% Acetic acid	mg/kg	ND	ND
Conclusion			PASS	

Note(s): ND = Not Detected
mg /kg = milligram per kilogram
- 1 The Allient Advantage of the Allient Advan
Method: EN 13130-1: 2004 and analysis by inductively Coupled Argon Plasma
Spectrometer (ICP)
Remark(s) 1. The migration test is carried out according to EC regulation No. 2020 / 1245
2. Selected tests were specified by client.

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REPORT of EXAMINATION and ANALYSIS

AB-0566-T G23-13189/1 05-23

	tion wiht 20% Ethanol for Plastic Mater Commission Regulation (EU) No	.2020/1245		
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 for selection of selection of test methods;			
EN 1186-3 aqueous food simulants by total immersion method				
Test Conditions:	2 hours at 70 °C (3 rd migtation)			
Simulant Used:	20 % Ethanol (V/V) Aqueous Solution			

			Result(s)	(mg/dm²)		
			1 st Migration	2 nd Migration	3 rd Wigration	
	Trial	1:	4,5	3,1	1,6	
	Trial	2:	4,2	3,3	1,9	
	Trial	ACCRECATE OF THE PARTY OF THE P	3,8	2,6	1,2	
Δ	veraj	-	4,2	3,0	1,6	
	clusi			Pass		
	Note	47474	n.d. = not detected			
Sing Laborator			°C = degree Celsius			
			mg / kg = miligram per kilogram of foodstuff in contact with			
and the second second			mg / dm² = miligram per	square decimeter of fo	podstuff in contact with	
Report	ing Li	mit:	NA .			
Remark(s)	1.	Pern	missible limit specified by Commission Regulation (EU) No 10/2011 of 14 January			
		2013	L with amendments.			
	2.	Anal	alytical tolerance of fatty food simulants is 2 mg/ dm² or 12 mg/kg.			
	3.	Test	st condition & simulant were specified by client,/according to Commission			
444			egulation (EU) No 10/2011 of 14 January 2011 with amendments.			
	4.	The	ne volume of simulant used is 0,3 L ne ratio of surface area to volume ratio is 2.0 dm² per 1 kg of foodstuff in contact			
	5.	The	ratio of surface area to volu	me ratio is 2.0 dm² per 1	kg of foodstuff in contact	
Access (All States		with			the state of the second	
6. Total food contact surface area of whole article is			of whole article is applied	d in the calculation of the result		
		acco	ording to Commission Regula	tion (EU) No 10/2011 of	14 January 2011 Article 17	
a de la companya de	7.		food contact surface area		or similar sealing article is	
		app	lied in the calculation of the	result.		

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REPORT of EXAMINATION and ANALYSIS

AB-0566-T G23-13189/1 05-23

	Overall Migration with 50% Ethanol for Plastic Materials in Contact with Foodstuffs per Commission Regulation (EU) No. 2020/1245 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 for selection of selection of test methods;				
	EN 1186-3 aqueous food simulants by total immersion method				
Test Conditions:					
Simulant Used:	50% Ethanol (V/V) Aqueous Solution				

Jimaian D.	scu.	307	Etilanoi (V/ V/ Aqueous		
			Result(s) (mg/dm²)	and the second being the second
	re-		1 st Migration	2 nd Migration	3 d Migration
Program Substitution	Tria	1:	4,4	2,8	1,7
	Tria	2:	4,9	3,2	2,0
a Tablescott	Tria		5,0	3,5	2,4
-	vera		4,8	3,2	2,0
the state of the s	iclus			Pass	
1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	Note	(s):	n.d. = not detected		
	1000		°C = degree Celsius		
e propinsi della			mg / kg = miligram per	kilogram of foodstuff in	contact with
			mg / dm² = miligram pe	r square decimeter of fo	odstuff in contact with
Report	ling L	imit:	10 mg/kg - 2,5 mg / c	lm²	
Remark(s)	1.	Pern	missible limit specified by Commission Regulation (EU) No 10/2011 of 14 January		
		2013	L with amendments		
art objects a	2.	Anal	lytical tolerance of fatty food simulants is 2 mg/dm² or 12 mg/kg.		
	3.	Test	condition & simulant were	specified by client,/ accor	ding to Commission
27.00 4				14 January 2011 with ame	ndments.
	4.	The	volume of simulant used is	: 0,3 L	
Constitution of the second	5.	The	ratio of surface area to vol	ume ratio is 2.0 dm² per 1	kg of foodstuff in contact
	with.				
6. Total food contact surface area of whole article is applied in the calculation of the according to Commission Regulation (EU) No 10/2011 of 14 January 2011 Article					in the calculation of the result
		acco	ording to Commission Regu	lation (EU) No 10/2011 of	14 January 2011 Article 17
	7.			of cap, gaskets, stopper o	or similar sealing article is
		арр	ied in the calculation of th	e result.	

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REPORT of EXAMINATION and ANALYSIS

AB-0566-T	
G23-13189/1	
05-23	

— pp	tion wiht 10% Ethanol for Plastic Materials in Contact with Foodstuffs per Commission Regulation (EU) No.2020/1245*
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 for selection of selection of test methods;
	EN 1186-9 aqueous food simulants by article immersion method
Test Conditions:	2 hours at 70 °C , 3 cycle
Simulant Used:	10% Ethanol (W/V) Aqueous Solution

Result(s) (mg/din')						
7.116			1 st Migration	2 nd Migration	3 ^{ro} Migration	
Section Comments	Trial	1:	3,0	2,4	1,5	
	Trial	2:	3,4	2,7	2,0	
1000-100	Trial		3,2	2,1	1,1	
	Averag		3,2	2,4	1,5	
	nclusi	200 C 100 C	· · · · · · · · · · · · · · · · · · ·	Pass		
	Note		n.d. = not detected			
			°C = degree Celsius			
				kilogram of foodstuff in	contact with	
e et en Callente (1900) Angli di Rigilia (1900)			mg / dm² = miligram pe	r square decimeter of fo	odstuff in contact with	
Repor	ting ti	mit:	2,5 mg/dm ²			
Remark(s)					No 10/2011 of 14 January	
			with amendments.			
	2.	Analy	tical tolerance of fatty foo	d simulants is 2 mg/ dm ²	12 mg/kg.	
	3.	Test	condition & simulant were	specified by client,/ accord	ding to Commission	
		Regu	lation (EU) No 10/2011 of	14 January 2011 with ame	ndments.	
	4.	The v	olume of simulant used is	0,3 L		
	5. The ratio of surface area to volume ratio is 2.0 dm ² per 1 kg of foodstuff in contact					
and the second	with.					
	6. Total food contact surface area of whole article is applied in the calculation of the resu					
and the second second	according to Commission Regulation (EU) No 10/2011 of 14 January 2011 Article 17					
7. Only food contact surface area of cap, gaskets, stopper or similar sealing article is					r similar sealing article is	
9.0		appli	ed in the calculation of the	e result.		

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REPORT of EXAMINATION and ANALYSIS

AB-0566-T G23-13189/1 05-23

Anna Santa da Antonio de Cara	Regulation (EU	erials in Contact with Foodstuffs per Commission No.2020/1245*	
Test Method:	od: 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 for selection of selection of test methods;		
	EN 1186-14 substitute test.		
Test Conditions:	0.5 hours at 40 °C	(3 rd Migration)	
Simulant Used:	Isooctane		

his this part of the	Result(s)	(m g/dm ²)			
	1 st Migration	2 nd Migration	3 rd Migration		
Trial 1	5,1	4,3	2,1		
Trial 2	5,3	4,7	2,4		
Trial 3	4,7	4,0	1,8		
Average	104	4,3	2,1		
Conclusion		Pass			
Note(s)	100				
an cameraga - and desire	°C = degree Celsius				
	mg / kg = miligram per kilogra	m of foodstuff in contact	with		
그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그	mg / dm2 = miligram per squa	ire decimeter of foodstuff i	in contact with		
	*Further verification by veget	able oil is recommended fo	or compliance confirmation if the		
1000		Nylon, PVC , Organic Coant	ing, Hard and Rigid Plastics , PS,		
tigge of the first physical area.	SAN, ABS, Melamine.				
Reporting Lim	2,5 mg / dm ²				
Permissible Lim	10 mg/dm²		0.40044		
		ission Regulation (EU) No :	10/2011 of 14 January 2011 with		
	nendments.		a lka		
2. Ar	alytical tolerance of fatty food sir	nulants is 5 mg/ uniz zom	to Commission Regulation (FU) No		
3. Te	3. Test condition & simulant were specified by client,/ according to Commission Regulation (EU) No.				
	10/2011 of 14 January 2011 with amendments. 4. The volume of simulant used is 0,3 L				
5. Th					
6. To	c t t t t t t t t t t t t t t t t t t t				
d. It	according to Commission Regulation (EU) No 10/2011 of 14 January 2011 Article 17				
7. 0	nly food contact surface area of ca	pp, gaskets , stopper or sim	ilar sealing article is applied in the		
	culation of the result.				

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REPORT of EXAMINATION and ANALYSIS

AB-0566-T G23-13189/1 05-23

Overall Migration w	ht 95% Ethanøl for Plastic Materials in Contact with Foodstuffs per Commission Regulation (EU) No.2020/1245*
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 for selection of selection of test methods;
	EN 1186-14 substitute test.
Test Conditions:	2 hours at 60 °C , 3 cycle
Simulant Used:	95% Ethanol (V/V) Aqueous Solution

Simulant U	eu.	33/6	Ethanol (V/V) Aqueol					
			Result	(s) (mg/dm²)				
			1 ^{xt} Migration	2 nd Migration	3 ^{of} Wigration			
	Tria	1:	5,1	4,5	2,5			
	Tria		5,4	4,3	2,2			
	Tria	13:	4,9	3,9	1,9			
Á	vera	-	5,1	4,2	2,2			
	rdusi			Pass				
	Note		mg / dm ² = miligram per s	ogram of foodstuff in contact quare decimeter of foodstuff egetable oil is recommended not Nylon, PVC, Organic Coar	with in contact with for compliance confirmation if the nting, Hard and Rigid Plastics , PS,			
Reps Permi	Section of the sectio	Limit.	2,5 mg/dm ² 10 mg/dm ²					
Remark(s)	1.	Perm amer	issible limit specified by Co Idments.		o 10/2011 of 14 January 2011 with			
	2.	Analy	lytical tolerance of fatty food simulants is 3 mg/ dm2 20mg/kg.					
	3.	Test	t condition & simulant were specified by client,/ according to Commission Regulation (EU) No					
10/2011 of 14 January 2011 with amendments. 4. The volume of simulant used is 0,3 L								
Section 1	4. 5.	The	e ratio of surface area to volume ratio is 2.0 dm2 per 1 kg of foodstuff in contact with.					
	6.	Total	food contact surface area	of whole article is applied in	the calculation of the result			
	according to Commission Regulation (EU) No 10/2011 of 14 January 2011 Article 1/							
600 mg	7.	Only	food contact surface area	of cap, gaskets, stopper or si	milar sealing article is applied in the			
		calcu	culation of the result.					

Koray TAŞKIN Che. Lab. Mgr. e-signed

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REPORT of EXAMINATION and ANALYSIS

AB-0566-T G23-13189/1 05-23

	on with 3% Acetic Acid for Plastic Materials in Contact with Foodstuffs per Commission Regulation (EU) No. 2020/1245* 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 for selection of selection of test methods;
	EN 1186-9 aqueous food simulants by article immersion method
Test Conditions:	2 hours at 70 °C , 3 cycle
Simulant Used:	3% Acetic Acid (W/V) Aqueous Solution

Result(s) (mg/dm²)						
			1 st Migration	2 and Migration	3 Migration	
Trial 1:			4,8	3,7	2,7	
	Tria	2 :	4,4	3,2	2,2	
10000	Tria		4,3	2,7	1,9	
	wera		4,5	3,2	2,3	
	nclusi	#A * ACMIDIOCOCCOCC		Pass		
and the second second	Note		n.d. = not detected			
			°C = degree Celsius			
			mg / kg = miligram per k	ilogram of foodstuff in	contact with	
			mg / dm² = miligram per	square decimeter of fo	oodstuff in contact with	
Repor	line I	imit.				
Permiss						
Remark(s)	1.	Porn	nissible limit specified by Co	mmission Regulation (EU) No 10/2011 of 14 January	
ACTUATION CONTRACT			1 with amendments.	, , , , , , , , , , , , , , , , , , ,		
	2.		lytical tolerance of fatty food	d simulants is 2 mg/dm ²	12 mg/kg.	
Sentence and the	3.	Test	condition & simulant were	specified by client,/ acco	rding to Commission	
		Regi	ulation (EU) No 10/2011 of 1	4 January 2011 with ame	endments.	
	4. The volume of simulant used is 0,3 L.					
	5. The ratio of surface area to volume ratio is 2.0 dm² per 1 kg of foodstuff in contact					
	with.					
	6. Total food contact surface area of whole article is applied in the calculation of the resu					
	according to Commission Regulation (EU) No 10/2011 of 14 January 2011 Article 17					
	7. Only food contact surface area of cap, gaskets, stopper or similar sealing article is					
	applied in the calculation of the result.					

Koray TAŞKIN Che. Lab. Mgr. e- signed Confirmable

18.05.2023

Yunus Emre YILMAR

Lab. Manager

e-signed

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	ALBERTAL OF THE STATE OF THE STATE OF
Overal Migration with 3% Acidic Acid for Plastic Materials in Contact with Foodstuffs per Commission Regulation (EU) No.2020/1245*	Р
Overal Migration with 10% Ethanol for Plastic Materials in Contact with Foodstuffs per Commission Regulation (EU) No.2020/1245*	Р
Overal Migration with 95% Ethanol for Plastic Materials in Contact with Foodstuffs per Commission Regulation (EU) No.2020/1245*	P
Overal Migration with Isooctane for Plastic Materials in Contact with Foodstuffs per Commission Regulation (EU) No.2020/1245*	Р
Overal Migration with 50% Ethanol for Plastic Materials in Contact with Foodstuffs per Commission Regulation (EU) No.2020/1245*	P
Overal Migration with 20% Ethanol for Plastic Materials in Contact with Foodstuffs per Commission Regulation (EU) No.2020/1245*	Р
Spesific Migration of Heavy Metals for Plastic Materials in Contact with Foodstuffs per Commission Regulation (EU) 2020/1245	P
Phthalates*	P
Spesific Migration of Primary Aromatic Amine for Plastic Materials in Contact with Foodstuffs – Commisin Regulation (EU) No.2020/1245	P
Sensory Test (Odour and Taste) – Simulant Water	
Turkak Acredited Test	

1	:	P: Pass, F:Fail, DATA: No Evaluation
2	:	The reported expanded uncertaint is based on the standard uncertainty multiplied by a coverage factor of k:2, providing a level of confidence of approximately 95%. Unless otherwise is specified, the uncertainty of measurement has not been taken into account when assesing pass/fail of the sample against the requirements of the standar. In case consideration of measurement uncertainties when assesing pass/fail limits, some results may be in borderline.
3	:	The test result, the uncertainties (if applicable) with confidence probability are given on the following pages which are part of this report.
4	:	Test Repors without authorised signatures are invalid.
5	:	The test results

Fire Translation of the Property of the Proper	Companent List / List of		
Sample 13189	Item No Compone Plate	nt Material Plastic	White

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REPORT of EXAMINATION and ANALYSIS

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- 1. No part of the analysis report can not be used alone or separately.
- 2. This report can not be used in judicial-administrative proceedings and for advertising purposes.
- 3. Analysis results are valid for the above mentioned sample.
- 4. This report may not be partially copied or reproduced without the written permission of the laboratory.
- 5. Unsigned and unsealed reports are not valid.
- 6. The above mentioned values were determined as the result of the examination and analysis.
- 7. Decision Rule: The conformity statement has been made in favor of the producer using quantitative physical and chernical analyses without considering measurement uncertainty in microbiological, sensory, and qualitative analyses (Simple Acceptance Rule).
- 8. Abbreviations, E : Evaluation, P : Pass, F : Fail, N.I. : Not Interpreted, R : Recovery, E.U. : Expanded Uncertainty, LQQ : Limit of Quantification
- 9. NI: Within the scope of the relevant legislation, no evaluation can be made for analyzes that do not have a limit value
- 10. The analysis signed with "*" are in the scope of accreditation.
- 11. Specific migration analyzes were performed on related food simulants based on the Customer's Statement in the Ç.08.PR.02 Packaging Analysis Request Form.
- 12. " The report has been revised by detailing the Analysis Result. The report with the report number 13189 dated 28.04.2023 and the revision number "00" is invalid.
- 13.It was made by filling method under the conditions of 70 ° C, 2 h, according to the repeatedly used product (1)
- 14.It was made by filling method under the conditions of 70 ° C, 2 h , according to the repeatedly used product (2)
- 15.It has been evaluated according to the Turkish Food Codex Communique on Plastic Substances and Materials in Contact with Food. (5)
- 16.It was made by :filling method under the conditions of 60 ° C, 2 hours, according to the repeatedly used product (4)
- 17.It was made by filling method under the conditions of 40 ° C, 0,5 hour, according to the repeatedly used product (a)
- 18.Migration Determination was carried out repeatedly with Food Similar B at 70°C, 2 hours. (8)
- 19. Specific Migration Primary Aromatic Amine not detectable at the limit of quantification / Name [LOQ] Accreditation status: LC-MS/MS (0,002):*2,4,5-Trimethylaniline (2,4,5-TMA), *2,4-Diaminoanisole (4-M-m-PDA), *2,4-Diaminotolunene (2,4-TDA), *2,4-Dimethylaniline (2.4-DMA), *2,6-Dimethylaniline (2,6-DMA), *2-Methoxy-5-methylaniline (2-M-5-MA), *2-Methylaniline (2,6-DMA), *2-Methoxy-5-methylaniline m-phenylenediamine (2,6-TDA), *4,4'-Diaminodiphenylmethane (4,4'-MDA), *4,4'-Methylene-bis-(2-methyl-aniline) (4,4'-MDAT), *4,4'-Oxydianiline (4,4'-DPE), *4-Aminobiphenyl (4-ABP), *4-Chloro-2-methylaniline (4-CoT), *4-Chloroaniline (4-CA); Aniline (ANL), *Benzidine (BNZ), *m-Phenylenediamine (m-PDA), *o-Anisidine (o-ASD), *o-Tolidine (3,3'-Dimethylbenzidine) (3,3'-DMB), *o-Toluidine (o-T), *p-Phenylenediamine (p-PDA)

Ali Kemal TARAKCİ Phy. Lab. Manager *e-signed*

Koray TASKIN Che. Lab. Manager **e-signed** & İrfan ÜRKMEZ ERMM Lab. Manager e-signed

Confirmable 18.05.2023 NANOLAB Yunus Emre YIL MERKEZ Lab, Manage e-signed

Bülent TATLISÖZ Manager of Sample Accept, and Report

e-signed



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REPORT of EXAMINATION and ANALYSIS

AB-0566-T

G23-13189/1

05-23

Analysis	Sasulia I	Metrod / Device.	R(3)	E.U.(2)	LOQ	umit	
11-*Arsenic (As) (mg/kg)	Not Detected	BS EN 13130-1, ISO 17294-1 ICP-MS			0,01625	Absent	Р
12-*Mercury (Hg) (mg/kg)	Not Detected	BS EN 13130-1, ISO 17294-1 ICP-MS			0,01383	absent	Р
13-*Europium (Eu) (mg/kg)	Not Detected	BS EN 13130-1, ISO 17294-1 ICP-MS			0,01359	≤ 0,05	P
14-*Gadolinium (Gd) (mg/kg)	Not Detected	BS EN 13130-1, ISO 17294-1 ICP-MS			0,01281	≤ 0,05	Р
15-*Cadmium (Cd) (mg/kg)	Not Detected	BS EN 13130-1, ISO 17294-1 ICP-MS			0,00349	Absent	P
16-*Chromium (Cr) (mg/kg)	Not Detected	BS EN 13130-1, ISO 17294-1 ICP-MS			0,01537	Absent	Р
17-*Lead (Pb) (mg/kg)	Not Detected	BS EN 13130-1, ISO 17294-1 ICP-MS			0,0137	Absent	Р
18-*Lanthanum (La) (mg/kg)	Not Detected	BS EN 13130-1, ISO 17294-1 ICP-MS			0,01386	≤ 0,05	P
19-*Terbium (Tb) (mg/kg)	Not Detected	BS EN 13130-1, ISO 17294-1 ICP-MS			0,01397	≤ 0,05	F

Nanolab Laboratuvar Hizmetleri Kimya Gıda Danışmanlık Çevre Eğitim San, ve Tic. Ltd. Şti. accredited by TÜRKAK under registration number AB-0566-T for TS EN ISO / IEC 17025 as test laboratory

Turkish Accreditation Agency (TURKAK) is a signatory to the European co-operation for Accreditation (EA) Multilateral Agreement (MLA) and to the International Laboratory Accreditation Cooperation (ILAC) Mutual Recognition Arrangement (MRA) for the recognition of test reports

Ali Kemal TARAKCİ Phy. Lab. Manager *e-signed* Ø

Koray TAŞKIN Che. Lab. Manager *e-signed ₫* İrfan ÜRKMEZ ERMM Lab. Manager e-signed

Bülent TATLISÖZ Manager of Sample Accept. and Report

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NANOLAB MERKEZ e-signed &

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REPORT of EXAMINATION and ANALYSIS

AB-0566-T

G23-13189/1

05-23

Analysis	Results	Mothed / Davice	R(%) EU(*) LOG	Limit	E
3-*Phthalic Acid, Bis(2-ethylhexyl) Ester DEHP) (%)	Not Detected	CPSC-CH-C1001-09.3 GC-MS/MS		0,015	≤ 1000	P
4-*Diisodecyl phthalate (DIDP) (%)	Not Detected	CPSC-CH-C1001-09.3 GC-MS/MS		0,015	≤ 1000	Р
5-*Diisononyl phthalate (DINP) (%)	Not Detected	CPSC-CH-C1001-09.3 GC-MS/MS		0,015	≤ 1000	Р
10-*Spesific Migration-Metals ⁽⁶⁾ (mg/kg)		BS EN 13130-1, ISO 17294-1 ICP-MS				P
1-*Barium (Ba) (mg/kg)	Not Detected	BS EN 13130-1, ISO 17294-1 ICP-MS			≤1	Р
2-*Cobalt (Co) (mg/kg)	Not Detected	BS EN 13130-1, ISO 17294-1 ICP-MS			≤ 0,05	P
3-*Copper (Cu) (mg/kg)	Not Detected	BS EN 13130-1, ISO 17294-1 ICP-MS			≤ 5	Р
4-*Iron (Fe) (mg/kg)	Not Detected	BS EN 13130-1, ISO 17294-1 ICP-MS			≤ 48	Р
5-*Lithium (Li) (mg/kg)	Not Detected	BS EN 13130-1, ISO 17294-1 ICP-MS			≤ 0,6	P
6-*Manganese (Mn) (mg/kg)	Not Detected	BS EN 13130-1, ISO 17294-1 ICP-MS			≤ 0,6	P
7-*Zinc (Zn) (rng/kg)	Not Detected	BS EN 13130-1, ISO 17294-1 ICP-MS			≤ 5	Р
8-*Aluminum (Al) (mg/kg)	Not Detected	BS EN 13130-1, ISO 17294-1 ICP-MS			≤1	Р
9-*Nickel (Ni) (mg/kg)	Not Detected	BS EN 13130-1, ISO 17294-1 ICP-MS			≤ 0,02	Р
10-*Antimony (Sb) (mg/kg)	Not Detected	BS EN 13130-1, ISO 17294-1 ICP-MS		0,0063	≤ 0,04	P

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Koray TAŞKIN Che. Lab. Manager *e-signed ಶ* İrfan ÜRKMEZ ERMM Lab. Manager e-signed

Bülent TATLISÖZ Manager of Sample Accept, and Report

e-signed

Confirmable 18.05.2023 Yunus Emre YIL Lab. Manage

NANOLAB MERKEZ e-signed &

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AB-0566-1

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G23-13189/1

05-23

REPORT of EXAMINATION and ANALYSIS

Report No / Rev. No

: G23-13189/1

Report Date

: 18.05.2023

The Purpose of Analysis

: Special Request

POLICUP AMBALAJ VE DIŞ TİCARET LÎMİTED ŞİRKETİ

Sample Sent by

Address

ZİYA GÖKALP CAD NO:6,

ESENYURT/ISTANBUL

Sample Name Sample Quantity ; B PLATE

: 40 ADET/PCS

Sample Package

Temperature (°C)

:25°C

Sample Acc. Date & Time

: 19.04.2023 15:10

eis Start - Finish Date 119 04,2023 - 26,04,2023

Analysis	Roculte	Method / Device	R(%)	E/U;(±)	LOQ	Limit	E
4. Canada Anglusia	There is no detectable difference in taste and odor.	TS 13793, DIN 10965, BS EN 1230-1, BS EN 1230-2 Organoleptic					P
2-*Total Migration (10% EtOH)(1) (mg/dm²)	1,5	TS EN 1186-3 Gravimetric Method		0,68		≤ 10	Р
3-*Total Migration (3% Acetic Acid)(1) (mg/dm²)	2,3	TS EN 1186-3 Gravimetric Method		1,04		≤ 10	P
4-*Total Migration (%20 EtOH)(1) (mg/dm²)	1,6	TS EN 1186-3 Gravimetric Method		0,72		≤ 10	Р
5-*Total Migration Analysis (Food-Like D1 - 50% Ethyl Alcohol)(⁽³⁾⁽³⁾ (mg/dm²)	2,0	TS EN 1186-3 / TS EN 1186-9 Gravimetric Method				≤ 10	P
6-*Total Migration (Oily Foods - 95% Ethyl Alcohol) ⁽⁴⁾ (mg/dm²)	2,2	TS EN 1186-14 Gravimetric Method		0,15		≤ 10	Р
7-*Total Migration (Oily Fats - Iso Octane)(5)(5) (mg/dm²)	2,1	TS EN 1186-14 Gravimetric Method		0,15		≤ 10	Р
8-*Specific Migration - Primary Aromatic Amine ^(e) (mg/kg)	Not Detected	EUR 24815 EN 2011 LC-MS/MS			0,002	Absent	P
9-*Phthalate Reagent (Material)(*)		CPSC-CH-C1001-09.3 GC-MS					Р
1-*Phthalic Acid, Dibutyl Ester (DBP) (%)	Not Detected	CPSC-CH-C1001-09.3 GC-MS/MS			0,015	≤ 500	Р
2-*Phthalic Acid, Benzyl Butyl Ester(BBP) (%)	Not Detected	CPSC-CH-C1001-09.3 GC-MS/MS			0,015	≤ 1000	Р

Ali Kemal TARAKCİ Phy. Lab.

Manager *e-signed*

Koray TAŞKIN Che. Lab.

Manager *e-signed ⊉*

Irfan ÜRKMEZ ERMM Lab. Manager e-signed

Bülent TATLISÖZ Manager of Sample Accept. and Report

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