NANOLAB LABORATORY SERVICES

REPORT of EXAMINATION and ANALYSIS

Test
TS EN ISO/IEC 17025
AB-0566-T

AB-0566-T
U23-1881/0
09-23

Report No / Rev. No	**: U23-1881/0**	**Report Date**	: 08.09.2023
The Purpose of Analysis	: SpecialRequest		
Sample Sent by	: ARTI FOLYO A.Ş.		
Address	: OYMAAĞAÇ, METALSAN 3117 NO: 8 A, 38090, KOCASİNAN/KAYSERİ		
Sample Name	: SELF SEAL		
Sample Quantity	: 6 ADET/PCS	**Sample Package**	: -
Temperature (°C)	: 25 °C		
Sample Acc. Date & Time	: 26.08.2023 09:21		
Analysis Start - Finish Date	: 28.08.2023 - 07.09.2023		

Analysis	Results	Method / Device	R (%)	E.U.(±)	LOQ	Limit	E
1-*Total Migration (Oily Foods - 95% Ethyl Alcohol)(1) (mg/dm²)	Not Detected	TS EN 1186-3, Method 1 Gravimetric Method			2,46	≤ 10	P
2-*Total Migration (Oily Fats - Iso Octane)(2)(3) (mg/dm²)	Not Detected	TS EN 1186-3, Method 1 Gravimetric Method			2,46	≤ 10	P
3-*Total Migration (10% EtOH)(3)(4) (mg/dm²)	Not Detected	TS EN 1186-3, Method 1 Gravimetric Method			2,46	≤ 10	P
4-*Total Migration (3% Acetic Acid)(3)(4) (mg/dm²)	Not Detected	TS EN 1186-3, Method 1 Gravimetric Method			2,46	≤ 10	P
5-*Specific Migration Assay-Primer Aromatic Amine (Migration)(5)	Not Detected	EUR 24815 EN 2011 LC-MS/MS			0,002	Absent	P
6-*Specific Migration-Phthalate (Migration)(5)		BS EN 13130-1 Agilent App Note LC-MS/MS					P
1-*Phthalic Acid, Dibutyl Ester (DBP) (mg/kg)	Not Detected	BS EN 13130-1 Agilent App Note LC-MS/MS			0,015	≤ 0,3	P
2-*Phthalic Acid, Benzyl Butyl Ester (BBP) (mg/kg)	Not Detected	BS EN 13130-1 Agilent App Note LC-MS/MS			0,04	≤ 30	P
3-*Phthalic Acid, Bis(2-ethylhexyl) Ester (DEHP) (mg/kg)	Not Detected	BS EN 13130-1 Agilent App Note LC-MS/MS			0,4	≤ 1,5	P

Gül GÜVENÇ
ERMM Lab.
Manager
e-signed

Bülent TATLISÖZ
Manager of Sample
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Confirmable
08.09.2023
Yunus Emre YILMAZ
Lab. Manager
e-signed

NANOLAB LABORATUVAR HİZMETLERİ
NANOLAB MERKEZ

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4-*Diisodecyl phthalate (DIDP) (mg/kg)	Not Detected	BS EN 13130-1 Agilent App Note LC-MS/MS			0,4	DIDP+DINP ≤ 9	P
5-*Diisononyl phthalate (DINP) (mg/kg)	Not Detected	BS EN 13130-1 Agilent App Note LC-MS/MS			0,4	DIDP+DINP ≤ 9	P
7-*Bisphenol A[6] (mg/kg)	Not Detected	EN 14372, BS-EN 13130-13 HPLC-FLD	94,052		0,005	≤ 0,05	P
8-*Spesific Migration-Metals[5] (mg/kg)		BS EN 13130-1, ISO 17294-1 ICP-MS					P
1-*Barium (mg/kg)	Not Detected	BS EN 13130-1, ISO 17294-1 ICP-MS	94,00		0,129	≤ 1	P
2-*Antimony (Sb) (mg/kg)	Not Detected	BS EN 13130-1, ISO 17294-1 ICP-MS			0,0063	≤ 0,04	P
3-*Arsenic (As) (mg/kg)	Not Detected	BS EN 13130-1, ISO 17294-1 ICP-MS			0,01625	Absent	P
4-*Mercury (Hg) (mg/kg)	Not Detected	BS EN 13130-1, ISO 17294-1 ICP-MS			0,01383	Absent	P
5-*Europium (Eu) (mg/kg)	Not Detected	BS EN 13130-1, ISO 17294-1 ICP-MS			0,01359	≤ 0,05	P
6-*Gadolinium (Gd) (mg/kg)	Not Detected	BS EN 13130-1, ISO 17294-1 ICP-MS			0,01281	≤ 0,05	P
7-*Cadmium (Cd) (mg/kg)	Not Detected	BS EN 13130-1, ISO 17294-1 ICP-MS			0,00349	Absent	P
8-*Chromium (Cr) (mg/kg)	Not Detected	BS EN 13130-1, ISO 17294-1 ICP-MS			0,01537	Absent	P
9-*Lead (Pb) (mg/kg)	Not Detected	BS EN 13130-1, ISO 17294-1 ICP-MS			0,0137	Absent	P

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10-*Lanthanum (La) (mg/kg)	Not Detected	BS EN 13130-1, ISO 17294-1 ICP-MS			0,01386	≤ 0,05	P
11-*Terbium (Tb) (mg/kg)	Not Detected	BS EN 13130-1, ISO 17294-1 ICP-MS			0,01397	≤ 0,05	P
12-*Cobalt (mg/kg)	Not Detected	BS EN 13130-1, ISO 17294-1 ICP-MS	94,00		0,02	≤ 0,05	P
13-*Copper (mg/kg)	Not Detected	BS EN 13130-1, ISO 17294-1 ICP-MS	96,00		0,301	≤ 5	P
14-*Iron (mg/kg)	Not Detected	BS EN 13130-1, ISO 17294-1 ICP-MS	95,00		6,506	≤ 48	P
15-*Lithium (mg/kg)	Not Detected	BS EN 13130-1, ISO 17294-1 ICP-MS	98,00		0,089	≤ 0,6	P
16-*Manganese (mg/kg)	Not Detected	BS EN 13130-1, ISO 17294-1 ICP-MS	97,00		0,086	≤ 0,6	P
17-*Zinc (mg/kg)	Not Detected	BS EN 13130-1, ISO 17294-1 ICP-MS	98,00		4,072	≤ 5	P
18-*Aluminum (Al) (mg/kg)	Not Detected	BS EN 13130-1, ISO 17294-1 ICP-MS	94,262		0,19	≤ 1	P
19-*Nickel (Ni) (mg/kg)	Not Detected	BS EN 13130-1, ISO 17294-1 ICP-MS	88,167		0,005	≤ 0,02	P

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

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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 chemical analyses without considering measurement uncertainty in microbiological, sensory, and qualitative analyses (Simple Acceptance Rule).
8. NI: Within the scope of the relevant legislation, no evaluation can be made for analyzes that do not have a limit value.
9. The analysis signed with "*" are in the scope of accreditation.
10. The laboratory is not responsible for the information declared by the customer.
11. Abbreviations; E : Evaluation, P : Pass, F : Fail, N.I. : Not Interpreted, R : Recovery, E.U. : Expanded Uncertainty, LOQ : Limit of Quantification
12.It was made by immersion method according to disposable products in 40° C, 10 day conditions. (1)
13.It was made by immersion method according to disposable products in 20 ° C, 2 day conditions. (2)
14.It has been evaluated according to the Turkish Food Codex Communiqué on Plastic Substances and Materials in Contact with Food. (3)
15.It was made by immersion method according to disposable products in 40 ° C, 10 day conditions. (4)
16.Migration Detection was made without repetition with Food Similar A, B, D2/substitute 95% Ethyl Alcohol at 40°C, 10 days conditions and D2/substitute isoctane at 20°C, 2 days conditions. (5)
17.Migration Detection was made without repetition with Food Similar A, B, D2/substitute 95% Ethyl Alcohol at 40°C, 10 days conditions and D2/substitute isoctane at 20°C, 2 days conditions (6)
18.Specific Migration Assay-Primer Aromatic Amine (Migration) 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-Methyl-m-phenylenediamine (2,6-TDA), *4,4'-Diaminodiphenylmethane (4,4'-MDA), *4,4'-Methylene-bis-(2-methyl-aniline) (4,4'-MDoT), *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)

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