



T.C.
MINISTRY OF AGRICULTURE AND FORESTRY
NANOLAB Private Food Control Laboratory
ANALYSIS REPORT

AB-0566-T

G26-24192/0

05-26

Report No / Rev. No : G26-24192/0

Report Date : 08.05.2026

The Purpose of Analysis : Special Request

Sample Sent by : TİRYAKİLER AMBALAJ SAN. VE
TİC.LTD.ŞTİ.
ÇOBANÇEŞME MAH.SANAYİ CAD.
Address : NO:72/2 YENİBOSNA,
BAHÇELİEVLER/İSTANBUL

Sample Name : LDPE BAG

Sample Quantity : 25 ADET /PCS

Sample Package : -

Temperature (°C) : 22 °C

Sample Acc. Date & Time : 15.04.2026 12:03

Analysis Start - Finish Date : 15.04.2026 - 07.05.2026

Analysis	Results	Method / Device	R (%)	E.U.(±)	LOD / LOQ	Limit	E
1-*Specific Migration-Phthalate (Migration) ⁽²⁾⁽⁵⁾⁽⁷⁾ (mg/kg)		BS EN 13130-1:2004 ,Agilent App Note LC-MS/MS					
1-*Phthalic Acid, Dibutyl Ester (DBP) (mg/kg)	Not Detected	BS EN 13130-1:2004 ,Agilent App Note LC-MS/MS			0.01	≤ 0,12	P
2-*Phthalic Acid, Benzyl Butyl Ester (BBP) (mg/kg)	Not Detected	BS EN 13130-1:2004 ,Agilent App Note LC-MS/MS			0.1	≤ 6	P
3-*Phthalic Acid, Bis(2-ethylhexyl) Ester (DEHP) (mg/kg)	Not Detected	BS EN 13130-1:2004 ,Agilent App Note LC-MS/MS			0.01	≤ 0,6	P
4-*Diisodecyl phthalate (DIDP) (mg/kg)	Not Detected	BS EN 13130-1:2004 ,Agilent App Note LC-MS/MS			0.01	DIDP+DINP ≤ 1,8	P
5-*Diisononyl phthalate (DINP) (mg/kg)	Not Detected	BS EN 13130-1:2004 ,Agilent App Note LC-MS/MS			0.01	DIDP+DINP ≤ 1,8	P
2-Specific Migration -Primer Aromatic Amine ⁽²⁾⁽⁵⁾⁽⁶⁾ (mg/kg)	Not Detected	EUR 24815 EN 2011 LC-MS/MS			0,002	Absent	P
3-*Specific Migration-Metals ⁽²⁾⁽⁵⁾⁽⁶⁾ (mg/kg)		BS EN 13130-1:2004, EN ISO 17294-1:2024 ICP-MS					
1-*Barium (mg/kg)	Not Detected	BS EN 13130-1:2004, EN ISO 17294-1:2024 ICP-MS	95,27		0.01	≤ 1	P

İrfan ÜRKMEZ
ERMM Lab.
Manager

e-signed

Bülent TATLISÖZ
Manager of Sample
Accept. and Report

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Confirmable
08.05.2026
Serhat YEMİŞKİ
Lab. Manager

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<https://eimza.nano-lab.com.tr/home/Index?privateCode=71AC9C71&date=08.05.2026>

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A-1.PR.17

Yayın Tarihi: 28.11.2011

Adnan Kahveci Mah. Topçu Sok. Vadi İş Merk. No:2/25 Beylikdüzü - İSTANBUL

Tel.: 0212 855 48 10 - 855 02 53 Fax: 0212 855 48 33

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2-*Antimony (Sb) (mg/kg)	Not Detected	BS EN 13130-1:2004, EN ISO 17294-1:2024 ICP-MS	89,14		0.005	≤ 0,04	P
3-*Arsenic (As) (mg/kg)	Not Detected	BS EN 13130-1:2004, EN ISO 17294-1:2024 ICP-MS	96,64		0.01	Absent	P
4-*Mercury (Hg) (mg/kg)	Not Detected	BS EN 13130-1:2004, EN ISO 17294-1:2024 ICP-MS	100,80		0.01	Absent	P
5-*Europium (Eu) (mg/kg)	Not Detected	BS EN 13130-1:2004, EN ISO 17294-1:2024 ICP-MS	97,65		0.01	≤ 0,05	P
6-*Gadolinium (Gd) (mg/kg)	Not Detected	BS EN 13130-1:2004, EN ISO 17294-1:2024 ICP-MS	95,67		0.01	≤ 0,05	P
7-*Cadmium (Cd) (mg/kg)	Not Detected	BS EN 13130-1:2004, EN ISO 17294-1:2024 ICP-MS	77,13		0.002	Absent	P
8-*Chromium (Cr) (mg/kg)	Not Detected	BS EN 13130-1:2004, EN ISO 17294-1:2024 ICP-MS	94,62		0.01	Absent	P
9-*Lead (Pb) (mg/kg)	Not Detected	BS EN 13130-1:2004, EN ISO 17294-1:2024 ICP-MS	101,98		0.01	Absent	P
10-*Lanthanum (La) (mg/kg)	Not Detected	BS EN 13130-1:2004, EN ISO 17294-1:2024 ICP-MS	96,68		0.01	≤ 0,05	P
11-*Terbium (Tb) (mg/kg)	Not Detected	BS EN 13130-1:2004, EN ISO 17294-1:2024 ICP-MS	100,93		0.01	≤ 0,05	P
12-*Cobalt (mg/kg)	Not Detected	BS EN 13130-1:2004, EN ISO 17294-1:2024 ICP-MS	94,22		0.01	≤ 0,05	P
13-*Sodium (mg/kg)	Not Detected	BS EN 13130-1:2004, EN ISO 17294-1:2024 ICP-MS	100,94		0.25		NI
14-*Potassium (mg/kg)	Not Detected	BS EN 13130-1:2004, EN ISO 17294-1:2024 ICP-MS	94,35		0.25		NI
15-*Magnesium (mg/kg)	Not Detected	BS EN 13130-1:2004, EN ISO 17294-1:2024 ICP-MS	102,90		0.25		NI
16-*Calcium (mg/kg)	Not Detected	BS EN 13130-1:2004, EN ISO 17294-1:2024 ICP-MS	101,36		0.25		NI

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17-*Copper (mg/kg)	Not Detected	BS EN 13130-1:2004, EN ISO 17294-1:2024 ICP-MS	94,23		0.01	≤ 5	P
18-*Iron (mg/kg)	Not Detected	BS EN 13130-1:2004, EN ISO 17294-1:2024 ICP-MS	91,45		0.01	≤ 48	P
19-*Lithium (mg/kg)	Not Detected	BS EN 13130-1:2004, EN ISO 17294-1:2024 ICP-MS	99,35		0.01	≤ 0,6	P
20-*Manganese (mg/kg)	Not Detected	BS EN 13130-1:2004, EN ISO 17294-1:2024 ICP-MS	95,45		0.01	≤ 0,6	P
21-*Zinc (mg/kg)	Not Detected	BS EN 13130-1:2004, EN ISO 17294-1:2024 ICP-MS	92,54		0.01	≤ 5	P
22-*Aluminum (Al) (mg/kg)	Not Detected	BS EN 13130-1:2004, EN ISO 17294-1:2024 ICP-MS	96,44		0.01	≤ 1	P
23-*Nickel (Ni) (mg/kg)	Not Detected	BS EN 13130-1:2004, EN ISO 17294-1:2024 ICP-MS	96,76		0.004	≤ 0,02	P
4-*Specific Migration - Bisphenol A ⁽²⁾⁽⁶⁾ (mg/kg)	Not Detected	EN 14372: 2004, BS- EN 13130-13:2005 HPLC-FLD	94,052		0.001	≤ 0,05	P
5-*Specific Migration - Element Release Determination (Ammonium) ⁽⁹⁾ (mg/L)	Not Detected	TS 7159:1989 Spektrofotometrik Metot	100,74		0.15		NI
6-*Total Migration (B-3% Acetic Acid) ⁽¹⁾⁽²⁾⁽³⁾ (mg/dm ²)	Not Detected	TS EN 1186-3: 2022 , Method 3 Gravimetric Method			1.5	≤ 10	P
7-*Total Migration (10% EtOH) ⁽¹⁾⁽²⁾⁽³⁾ (mg/dm ²)	Not Detected	TS EN 1186-3: 2022 , Method 3 Gravimetric Method			1.5	≤ 10	P
8-*Total Migration (Oily Fats - Iso Octane) ⁽²⁾⁽³⁾⁽⁴⁾ (mg/dm ²)	Not Detected	TS EN 1186-3: 2022 , Method 3 Gravimetric Method			1.5	≤ 10	P
9-*Total Migration (Oily Foods - 95% Ethyl Alcohol) ⁽¹⁾⁽²⁾⁽³⁾ (mg/dm ²)	Not Detected	TS EN 1186-3: 2022 , Method 3 Gravimetric Method			1.5	≤ 10	P

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10-*Structure ⁽⁸⁾	Polyethylene	In-house Method- "K.SOP.156/Rev.01" (HR Hummel Polymer and Additives, HR Raman Polymer Library, Hummel Polymer Sample Library) FT-IR				Polyethylene	P

The analysis signed with "" are in the scope of accreditation.

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 17025:2017 as test laboratory.

Turkish Accreditation Agency (TÜRKAK) 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.

The test and/or measurement results, the uncertainties (if applicable) with confidence probability and test methods are given on the following pages which are part of this report.

As a result of the analysis, the above mentioned values were determined.

Note: 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 laboratory is not responsible for the information declared by the customer.

10. Abbreviations; E : Evaluation, P : Pass, F : Fail, N.I. : Not Interpreted, R : Recovery, E.U. : Expanded Uncertainty, LOD : Limit of Detection, LOQ : Limit of Quantification

EXPLANATION

1.It was made by pouch method according to disposable products in 40° C, 10 day conditions. ⁽¹⁾

2.It has been evaluated according to the Turkish Food Codex Communiqué on Plastic Substances and Materials in Contact with Food. ⁽²⁾

3.It Has Been Evaluated According to Regulation (EU) No 10/2011. ⁽³⁾

4.It was made by pouch method according to disposable products in 20° C, 2 day conditions. ⁽⁴⁾

5.It Has Been Evaluated According to Regulation (EU) No 10/2011. ⁽⁵⁾

6.Specific Migration Detection was made with Food Similar B at 40°C, 10 day by pouch method and disposable. ⁽⁶⁾

7.Specific Migration Detection was made with Food Similar 95% Ethyl Alcohol at 40°C, 10 day by pouch method and disposable. ⁽⁷⁾

8.Evaluated according to customer declaration. ⁽⁸⁾

9.Specific Migration Detection was made with aqueous food simulant at 40°C, 10 day by pouch method and disposable. ⁽⁹⁾

11. Measurement uncertainty was calculated using k = 2 in the 95% confidence interval.

12. Specific Migration -Primer Aromatic Amine not detectable at the limit of quantification / Name [LOQ] Accreditation status: LC-MS/MS (0.002) mg/kg: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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