



T.C.
TURKISH REPUBLIC MINISTRY OF FOOD
AGRICULTURE AND RURAL KALITE SISTEM
FOOD ANALYSIS LABORATORY ANALYSIS
REPORT OF PRIVATE REQUEST

AB-0125-T
9002019046713
04.12.2019

Report No :9002019046713 Date :04.12.2019
Reason of Analysis :PRIVATE REQUEST

Sample sent by : ÜÇGEN ENDÜSTRİYEL ÜRÜNLER SAN.TİC.LTD.ŞTİ.

Customer Code :-

Date and Number of Sampling Minutes :- / -

Date of Beginning and End of Analysis : 18/11/2019 / 04/12/2019

Sample's

Type : Packaging - PE (Insulated Carrying Container)
Package : OPEN PACKING
Production and Expire Date : - / -
Serial - Lot No : - / -
Amount (Net) : 10 kg
Trademark/Producer Name : - / -
Code Number : -

Date and time of receipt of sample : 18/11/2019 18:15

Product/Rayon/Measured is the sample temperature on acceptance : - / - °C

Sample Number :-

Analysis	Results	Limit Value		Conformity	Measurement Limit	Recovery	Uncertainty of Measurement	Analysis Methods
		Min	Max					
Overall Migration (Fatty Simulant-Ethanol)(*) ^{11. 6. 7. 15}	Not Detected	10 mg/dm ²		+	2 mg/dm ²			TS EN 1186-14, January 2004; TS EN 1186-3, March2006
Overall Migration (Fatty Simulant-Isooctane)(*) ^{12. 6. 7. 15}	3.5 mg/dm ²	10 mg/dm ²		+	2 mg/dm ²			TS EN 1186-14, January 2004; TS EN 1186-3, March2006
2,4 dimethyl aniline (2,4 DMA)(*)	Not Detected	-	-		2.11 ppb			EUR 24815 EN 2011
2,4,5 TMA (2,4,5-Trimethylaniline)(*)	Not Detected	-	-		1,33 ppb			EUR 24815 EN 2011
2,6 dimethyl aniline (2,6 DMA)(*)	Not Detected	-	-		2,20 ppb			EUR 24815 EN 2011
2-methoxy-5-methylaniline (2-M-5-MA)(*)	Not Detected	-	-		2.56 ppb			EUR 24815 EN 2011

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2-methyl-m-phenylenediamine(2,6-TDA)(*)	Not Detected - -	2.20 ppb	EUR 24815 EN 2011
4,4' Diaminodiphenyl methane (4,4'-MDA)(*)	Not Detected - -	1.95 ppb	EUR 24815 EN 2011
4,4' oxydianiline (4,4'-DPE)(*)	Not Detected - -	2.90 ppb	EUR 24815 EN 2011
4,4-Methylenedi-otoluidine (4,4'-MDoT)(*)	Not Detected - -	2.57 ppb	EUR 24815 EN 2011
4-Aminobiphenyl (4-ABP)(*)	Not Detected - -	3.46 ppb	EUR 24815 EN 2011
4-Chloroaniline(*)	Not Detected - -	1.33 ppb	EUR 24815 EN 2011
4-Chloro-o-toluidine (4-COT)(*)	Not Detected - -	3.09 ppb	EUR 24815 EN 2011
4-methoxy-m-phenylenediamine (4-M-mPDA)(*)	Not Detected - -	3.36 ppb	EUR 24815 EN 2011
4-methyl-m-phenylene diamine (2,4-TDA)(*)	Not Detected - -	2.11 ppb	EUR 24815 EN 2011
Aluminum Migration (ICP-MS) (*) ¹³	0.2 mg/kg - -	0.01 mg/kg	Inhouse Method - ML-6.01-907 (AP (89) 1, TGK 2013/34, TS EN 13130-1, TS EN ISO 17294-1, Anonymous 2009
Aniline hydrochloride (ANL)(*)	Not Detected - -	1.57 ppb	EUR 24815 EN 2011
Copper Migration (ICP-MS) (*) ^{13, 15}	Not Detected 5 mg/kg +	0.5 mg/kg	Inhouse Method - ML-6.01-907 (AP (89) 1, TGK 2013/34, TS EN 13130-1, TS EN ISO 17294-1, Anonymous 2009

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Report No	Date	Method	Result	Limit	Reference
Barium Migration (ICP-MS) (*) ^{13, 15}	Not Detected	1 mg/kg	+	0.05 mg/kg	InhouseMethod - ML-6.01-907 (AP (89) 1, TGK 2013/34, TS EN 13130-1, TS EN ISO 17294-1, Anonymous 2009
Benzidine (BNZ)(*)	Not Detected	-	-	2.40 ppb	EUR 24815 EN 2011
Bisphenol A (Acid Migration)(*) ^{1, 2, 14}	Not Detected	600 ppb	+	10 ppb	TS EN 14350-2, February 2006; TS EN 14372, December 2004; TGK 2013/34
Bisphenol A (Aqueous Migration)(*) ^{3, 2, 14}	Not Detected	600 ppb	+	10 ppb	TS EN 14350-2, February 2006; TS EN 14372, December 2004; TGK 2013/34
Zinc Migration (ICP-MS) (*) ^{13, 14}	Not Detected	25 mg/kg	+	0.5 mg/kg	Inhouse Method - ML-6.01-907 (AP (89) 1, TGK 2013/34, TS EN 13130-1, TS EN ISO 17294-1, Anonymous 2009
Iron Migration (ICP-MS) (*) ^{13, 15}	Not Detected	48 mg/kg	+	0.5 mg/kg	InhouseMethod - ML-6.01-907 (AP (89) 1, TGK 2013/34, TS EN 13130-1, TS EN ISO 17294-1, Anonymous 2009
Phthalate Determination (BBP, DDP, DEHP, DNOP, DIDP, DINP)	Not Detected	-	-	-	Inhouse Method - ML-6.01-909 (modified from TS EN 14372 method)
Cobalt Migration (ICP-MS) (*) ^{13, 15}	Not Detected	0.05 mg/kg	+	0.005 mg/kg	Inhouse Method - ML-6.01-907 (AP (89) 1, TGK 2013/34, TS EN 13130-1, TS EN ISO 17294-1, Anonymous 2009
Lithium Migration (ICP-MS) (*) ^{13, 15}	Not Detected	0.6 mg/kg	+	0.005 mg/kg	Inhouse Method - ML-6.01-907 (AP (89) 1, TGK 2013/34, TS EN 13130-1, TS EN ISO 17294-1, Anonymous 2009

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Manganese Migration (ICP-MS) (*) ^{13, 15}	Not Detected	0.6 mg/kg	+	0.005 mg/kg	Inhouse Method - ML-6.01-907 (AP (89) 1, TGK 2013/34, TS EN 13130-1, TS EN ISO 17294-1, Anonymous 2009
m-phenylene diamine (m-PDA)(*)	Not Detected	-	-	3,67 ppb	EUR 24815 EN 2011
Nickel Migration (ICP-MS) (*) ¹³	0.012 mg/kg	-	-	0.005 mg/kg	Inhouse Method - ML-6.01-907 (AP (89) 1, TGK 2013/34, TS EN 13130-1, TS EN ISO 17294-1, Anonymous 2009
O-tolidine (3,3'-DMB)(*)	Not Detected	-	-	1,69 ppb	EUR 24815 EN 2011
O-Toluidine (o-T)(*)	Not Detected	-	-	2,26 ppb	EUR 24815 EN 2011
Primer Aromatic Amines(*) ^{1, 4, 15}	Not Detected	10 ppb	+	-	EUR 24815 EN 2011
Overall Migration (10% Ethanol)(*) ^{5, 6, 7, 15}	Not Detected	10 mg/dm ²	+	2 mg/dm ²	TS EN 1186-9 March 2006 , TS EN 1186-3 March 2006
Overall Migration (20% Ethanol) (*) ^{8, 6, 7, 15}	Not Detected	10 mg/dm ²	+	2 mg/dm ²	TS EN 1186-9 March 2006 , TS EN 1186-3 March 2006
Overall Migration (3% Acetic Acid)(*) ^{9, 6, 15}	Not Detected	10 mg/dm ²	+	2 mg/dm ²	TS EN 1186-9 March 2006 , TS EN 1186-3 March 2006
Overall Migration (50% Ethanol) (*) ^{10, 6, 7, 15}	Not Detected	10 mg/dm ²	+	2 mg/dm ²	TS EN 1186-9 March 2006 , TS EN 1186-3 March 2006

¹: Analysis conditions: 3% Acetic Acid, 100 ° C, 2 hours

¹⁰: Analysis conditions: 50% Ethanol, 40 ° C, 10 days

¹¹: Analysis conditions: 95% Ethanol, 40 ° C, 10 days

¹² :: Analysis conditions: Isooctane, 20 ° C, 2 days

¹³: Analysis Conditions: 3% Acetic Acid, 40°C, 10 days

¹⁴ : Reference of Limit: Turkish Food Codex 2013/34

¹⁵: Reference of limit: Turkish Food Codex 2013/34, Commission Regulation (EU) No: 10/2011

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- 2: Filling method was used in sample preparation.
3: Analysis conditions: Distilled Water, 100 ° C, 2 hours
4: Dip method was used in sample preparation. (m-PDA, 2,4-TDA, 2,6-TDA, Benzidine, Aniline, 4,4-DPE, 4,4-MDA, 4,4-m-DoT, oT, 3,3-DMB, 2M -5MA, 4M-m-PDA, 4-CA, 2,4,5-TMA, 4-COT, 4-ABP)
5: Analysis conditions: 10% Ethanol, 40 ° C, 10 days
6: Dip method was used in sample preparation
7: Reduction factor not applied
8 : Analysis conditions: 20% Ethanol, 40 ° C, 10 days
9: Analysis conditions: 3% Acetic Acid, 40 ° C, 10 days

NOTES : 1- All the information related to the sample belongs to the owner of the sample.
2- The sample has reached the laboratory in closed company packaging.
3- TCB 600 – TCB 600 N – TCB 100 – TCB 150 – TCB 200 – TCB 200 M – TCB 200 C – ST-10 – ST-20 – ST-40 – USA 102

Above mentioned values have been determined from the analytical work performed.

- Notes: 1- This report shall not be used in the executive-judicial processes and for advertising purposes.
2- This report with all parts is a whole, no part of this report can be used separately.
3- Result of analysis belongs to sample mentioned above.
4- No copying or no publish without permission The reports which have no signs are invalid.
5- Analysis which have (*) signs are accredited.

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