



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

AB-0125-T
9002020000881
11.2.2020

**Report No** : 9002020000881/R2 **Date** : 11.02.2020  
**Reason of Analysis** : PRIVATE REQUEST  
**Sample sent by** : KONTENSAN KONYA TENEKE KUTU AMBALAJ VE  
MAKİNA SANAYİ VE TİCARET A.Ş.  
**Customer Code** : -  
**Date and Number of Sampling Minutes** : - / -  
**Date of Beginning and End of Analysis** : 09/01/2020 / 11/02/2020  
**Sample's**  
**Type** : LACQUERED TIN BOX  
**Package** : OPEN / CARDBOARD WRAPPED  
**Production and Expire Date** : - / -  
**Serial - Lot No** : - / -  
**Amount (Net)** : 4800 g  
**Trademark/Producer Name** : - / -  
**Code Number** : -  
**Date and time of receipt of sample** : 09/01/2020 16:41  
**Product/Rayon/Measured is the sample  
temperature on acceptance** : - / - °C  
**Sample Number** : -

<u>Analysis</u>	<u>Results</u>	<u>Limit Value</u>		<u>Conformity</u>	<u>Measurement Limit</u>	<u>Recovery</u>	<u>Uncertainty of Measurement</u>	<u>Analysis Methods</u>
		<u>Min</u>	<u>Max</u>					
2,4,5 TMA (2,4,5-Trimethylaniline)(*) <sup>1. 2</sup>	Not Detected	-	-		1.33 ppb			EUR 24815 EN 2011
2-methoxy-5-methylaniline (2-M-5-MA)(*) <sup>1. 2</sup>	Not Detected	-	-		2.56 ppb			EUR 24815 EN 2011
2-methyl-m-phenylenediamine(2,6-TDA)(*) <sup>1. 2</sup>	Not Detected	-	-		2.2 ppb			EUR 24815 EN 2011
4,4' Diaminodiphenyl methane (4,4'-MDA)(*) <sup>1. 2</sup>	Not Detected	-	-		1.95 ppb			EUR 24815 EN 2011
4,4' oxydianiline (4,4'-DPE)(*) <sup>1. 2</sup>	Not Detected	-	-		2.9 ppb			EUR 24815 EN 2011
4,4-Methylenedi-o-toluidine (4,4'-MDoT)(*) <sup>1. 2</sup>	Not Detected	-	-		2.57 ppb			EUR 24815 EN 2011
4-Aminobiphenyl (4-ABP)(*) <sup>1. 2</sup>	Not Detected	-	-		3.46 ppb			EUR 24815 EN 2011

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4-Chloroaniline(*) <sup>1, 2</sup>	Not Detected	-	-	1.33 ppb	EUR 24815 EN 2011
4-Chloro-o-toluidine (4-COT)(*) <sup>1, 2</sup>	Not Detected	-	-	3.09 ppb	EUR 24815 EN 2011
4-methoxy-m-phenylenediamine (4-M-mPDA)(*) <sup>1, 2</sup>	Not Detected	-	-	3.67 ppb	EUR 24815 EN 2011
4-methyl-m-phenylene diamine (2,4-TDA)(*) <sup>1, 2</sup>	Not Detected	-	-	2.11 ppb	EUR 24815 EN 2011
Aniline hydrochloride (ANL)(*) <sup>1, 2</sup>	Not Detected	-	-	1.57 ppb	EUR 24815 EN 2011
Copper Migration (ICP-MS) (*) <sup>4, 18</sup>	Not Detected	5 mg/kg	+	0.5 mg/kg	In-house method - ML-6.01-907 (AP (89) 1, TGK 2013/34, TS EN 13130-1, TS EN ISO 17294-1, Anonymous 2009
Barium Migration (ICP-MS) (*) <sup>4, 18</sup>	Not Detected	1 mg/kg	+	0.05 mg/kg	In-house Method - ML-6.01-907 (AP (89) 1, TGK 2013/34, TS EN 13130-1, TS EN ISO 17294-1, Anonymous 2009
Benzidine (BNZ)(*) <sup>1, 2</sup>	Not Detected	-	-	2.4 ppb	EUR 24815 EN 2011
Bisphenol A (Acid Migration) (*) <sup>1, 2, 17</sup>	Not Detected	50 ppb	+	10 ppb	TS EN 14350-2, February 2006; TS EN 14372, December 2004; TGK 2013/34 TS EN 14350-2, February 2006; TS EN 14372, December 2004; TGK 2013/34
Bisphenol A (Aqueous Migration) (*) <sup>3, 2, 17</sup>	Not Detected	50 ppb	+	10 ppb	In-house Method - ML-6.01-907 (AP (89) 1, TGK 2013/34, TS EN 13130-1, TS EN ISO 17294-1, Anonymous 2009
Zinc Migration (ICP-MS) (*) <sup>4, 19</sup>	Not Detected	25 mg/kg	+	0.5 mg/kg	In-house 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) (*) <sup>4, 18</sup>	0.74 mg/kg	48 mg/kg	+	0.5 mg/kg	ML-6.01-907 (AP (89) 1, TGK 2013/34, TS EN 13130-1, TS EN ISO 17294-1, Anonymous

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Cobalt Migration (ICP-MS) (*) <sup>4 . 18</sup>	Not Detected	0.05 mg/kg	+	0.05 mg/kg	In-house 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) (*) <sup>4 . 18</sup>	Not Detected	0.6 mg/kg	+	0.005 mg/kg	In-house Method - ML-6.01-907 (AP (89) 1, TGK 2013/34, TS EN 13130-1, TS EN ISO 17294-1, Anonymous 2009
Manganese Migration (ICP-MS) (*) <sup>4 . 18</sup>	Not Detected	0.6 mg/kg	+	0.005 mg/kg	In-house 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)(*) <sup>1 . 2</sup>	Not Detected	-	-	3.67 ppb	EUR 24815 EN 2011
O-tolidine (3,3'-DMB)(*) <sup>1 . 2</sup>	Not Detected	-	-	1.69 ppb	EUR 24815 EN 2011
O-Toluidine (o-T)(*) <sup>1 . 2</sup>	Not Detected	-	-	2.26 ppb	EUR 24815 EN 2011
Primary Aromatic Amines (*) <sup>1 . 2 . 18</sup>	Not Detected	10 ppb	+	-	EUR 24815 EN 2011
Aerobic colony count 30 °C (*)	Not Detected	-	-	-	TS EN ISO 4833-1
Coliform Bacteria count (*)	Detected<10 cfu	-	-	-	ISO 4832
Mold and Yeast Count (*)	Detected<10 cfu	-	-	-	ISO 21527-2
Overall Migration (Fatty Foodstuffs-Ethanol) (*) (n1) <sup>11 . 6 . 12 . 13 . 2 . 14 . 18</sup>	Not Detected	10 mg/dm <sup>2</sup>	+	2 mg/dm <sup>2</sup>	TS EN 1186-14, January 2004; TS EN 1186-3, March 2006

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Overall Migration (Fatty Foodstuffs-Ethanol) (*) (n2) <sup>11 . 6 . 12 . 13 . 2 . 14 . 18</sup>	6.8 mg/dm <sup>2</sup>	10 mg/dm <sup>2</sup>	+	2 mg/dm <sup>2</sup>	TS EN 1186-14, January 2004; TS EN 1186-3, March 2006
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Overall Migration (Fatty Simulant- Isooctane) (*) (n1) <sup>15</sup> · <small>6 . 12 . 16 . 2 . 14 . 18</small>	Not Detected	10 mg/dm <sup>2</sup>	+	2 mg/dm <sup>2</sup>	TS EN 1186-14, January 2004; TS EN 1186-3, March 2006
Overall Migration (Fatty Foodstuffs- Isooctane) (*) (n2) <sup>15</sup> · <small>6 . 12 . 16 . 2 . 14 . 18</small>	2.3 mg/dm <sup>2</sup>	10 mg/dm <sup>2</sup>	+	2 mg/dm <sup>2</sup>	TS EN 1186-14, January 2004; TS EN 1186-3, March 2006
Overall Migration (10% Ethanol) (*) (n1) <sup>1</sup> <small>5 . 6 . 7 . 8 . 18</small>	Not Detected	10 mg/dm <sup>2</sup>	+	2 mg/dm <sup>2</sup>	TS EN 1186-9 March 2006, TS EN 1186-3 March 2006
Overall Migration (10% Ethanol) (*) (n2) <sup>1</sup> <small>5 . 6 . 7 . 8 . 18</small>	3.0 mg/dm <sup>2</sup>	10 mg/dm <sup>2</sup>	+	2 mg/dm <sup>2</sup>	TS EN 1186-9 March 2006, TS EN 1186-3 March 2006
Overall Migration (3% Acetic Acid) (*) (n1) <sup>9</sup> <small>. 6 . 10 . 2 . 18</small>	Not Detected	10 mg/dm <sup>2</sup>	+	2 mg/dm <sup>2</sup>	TS EN 1186-9 March 2006, TS EN 1186-3 March 2006
Overall Migration (3% Acetic Acid) (*) (n2) <sup>9</sup> · <small>6 . 10 . 2 . 18</small>	4.0 mg/dm <sup>2</sup>	10 mg/dm <sup>2</sup>	+	2 mg/dm <sup>2</sup>	TS EN 1186-9 March 2006, TS EN 1186-3 March 2006

<sup>1</sup>: Analysis conditions: 3% Acetic Acid, 125 ° C, 1 hour + 40 ° C, 10 days

<sup>10</sup>: n: 2 Analysis conditions: 3% Acetic Acid, 125 ° C, 1 hour

<sup>11</sup>: n1: Analysis conditions: 95% Ethanol, 40 ° C, 10 days

<sup>12</sup>: No reduction factor applied

<sup>13</sup>: n2: Analysis conditions: 95% Ethanol, 60 ° C, 4 hours

<sup>14</sup>: No reduction factor applied

<sup>15</sup>: n1: Analysis conditions: Isooctane, 20 ° C, 2 days

<sup>16</sup>: n2: Analysis conditions: Isooctane, 60 ° C, 2 hours

<sup>17</sup>: Reference of Limit: EU 10/2011

<sup>18</sup>: Reference of Limit: TGK 2013/34, Commission Regulation (EU) No: 10/2011

<sup>19</sup>: Reference of Limit: TGK 2013/34

<sup>2</sup>: Immersion method used in sample preparation

<sup>3</sup>: Analysis conditions: Distilled Water, 125 ° C, 1 hour + 40 ° C, 10 days

<sup>4</sup>: Analysis Conditions: 3% Acetic Acid, 40°C, 10 days

<sup>5</sup>: n1: Analysis conditions: 10% Ethanol, 40 ° C, 10 days

<sup>6</sup>: Cell method is used in sample preparation

<sup>7</sup>: n2: Analysis conditions: 10% Ethanol, 125 ° C, 1 hour

<sup>8</sup>: Immersion method is used in sample preparation

<sup>9</sup>: n1: 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 packaging.

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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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Selçuk TAŞTAN  
Biogolist

Approved by-11.02.2020

Head of Instrumental Analys  
Laboratory  
Didem AKSAKAL  
Chemical Eng.

Head of Sample Receiving and  
Reporting Dept.  
Mesut ÖZDEMİR  
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