


**TEST REPORT**

Job No./Report No TR1128116

Date:15 June 2017

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The following sample(s) was (were) submitted and identified by/on behalf of the client as:

| Sample No. | Sample Description |
|------------|--------------------|
| A          | PP Fabric - White  |

Client's reference No. : TR 1128116  
 Buyer : Not Provided  
 Order No. : Not Provided  
 Division : Not Provided  
 Model/Style No. : Not Provided  
 Article No. : 1704-2011  
 Age Grade : Not Provided  
 Manufacturer : Not Provided  
 Country of Origin : Not Provided  
 Country of Destination : Not Provided  
 Shipment Date : Not Provided  
 End Use : Not Provided  
 Sample Receiving Date : 25 May 2017  
 Resubmit Date : Not Provided  
 Test Performing Period : 25 May 2017 ~ 13 June 2017  
**Overall Conclusion : Pass**  
 Test Results : Please refer to the next page(s).

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| Test Parameters                                                                                          | Result    |
|----------------------------------------------------------------------------------------------------------|-----------|
| <b>Chemical tests</b>                                                                                    | <b>A1</b> |
| FCM-Overall Migration of Total Non-volatile Substance in Plastic Materials - Simulant A (Ethanol 10%)    | M         |
| FCM-Overall Migration of Total Non-volatile Substance in Plastic Materials - Simulant B (Acetic acid 3%) | M         |
| FCM-Overall Migration of Total Non-volatile Substance in Plastic Materials - Simulant C (Ethanol 20%)    | M         |
| FCM-Overall Migration of Total Non-volatile Substance in Plastic Materials - Simulant D1 (Ethanol 50%)   | M         |
| FCM - Overall Migration of Total Non-volatile Substance in Plastic Materials (95% Ethanol)               | M         |
| FCM - Overall Migration of Total Non-volatile Substance in Plastic Materials (Isooctane)                 | M         |
| FCM - Overall Migration of Total Non-Volatile Substance in Plastic Materials (MPPPO/Tenax)               | M         |

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Istanbul - Turkey

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|         |                                                                                                                         |                                                                                                                                                                                                                                                                                                                                             |
|---------|-------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Remarks | :                                                                                                                       | M = Meets client's requirement                                                                                                                                                                                                                                                                                                              |
|         |                                                                                                                         | F = Below client's requirement                                                                                                                                                                                                                                                                                                              |
|         |                                                                                                                         | I = Inconclusive                                                                                                                                                                                                                                                                                                                            |
|         |                                                                                                                         | * = No specified requirement                                                                                                                                                                                                                                                                                                                |
|         |                                                                                                                         | # = For 2-composite mix with results exceeding one half of the relevant requirements or 3-composite mix with results exceeding one third of the relevant requirements, the composite sample may have the possibility of one or more components that can lead to a failure result, therefore, it is recommended to test on individual basis. |
| Notes:  | Conclusions on meet/fail are based on the test result from the actual sampling of the received sample(s).               |                                                                                                                                                                                                                                                                                                                                             |
|         | The composite sampling method is based on the client's special request and is a modification from the testing standard. |                                                                                                                                                                                                                                                                                                                                             |
|         | Residual sample can be returned to client if requested.                                                                 |                                                                                                                                                                                                                                                                                                                                             |

The test results relate to the tested items only.  
Test reports without SGS seal and authorized signatures are invalid.  
Reported results do not include uncertainties.

Issued in Istanbul  
Signed for and on behalf of  
SGS Supervise Gözetme Etüd Kontrol Servisleri A.Ş.

Selen Harman  
Customer Services Team Leader

Yağız Barın  
Section Manager



**Component List / List of Materials for Chemical Test**

| Sample No. | Sample Description | Material No. | Component | Material | Colour |  |
|------------|--------------------|--------------|-----------|----------|--------|--|
| A          | PP Fabric - White  | A1           | Main      | Plastic  | White  |  |

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**Overall Migration with %10 Ethanol<sup>1</sup>**

**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 1186-1:2002 for selection of test methods;  
EN 1186-3:2002 aqueous food simulants by total immersion method;

**Test Conditions:** 10 days at 40 °C (1<sup>st</sup> migration);

**Simulant Used:** 10% Ethanol (V/V) Aqueous Solution

**Result(s) (mg/dm<sup>2</sup>)**
**A1**

|                       |             |
|-----------------------|-------------|
| <b>Trial 1</b>        | n.d.        |
| <b>Trial 2</b>        | n.d.        |
| <b>Trial 3</b>        | n.d.        |
| <b>Mean (Average)</b> | n.d.        |
| <b>Conclusion</b>     | <b>Pass</b> |

**Note(s):** n.d. = not detected  
°C = degree Celsius  
mg/kg = milligram per kilogram of foodstuff in contact with  
mg/dm<sup>2</sup> = milligram per square decimeter of foodstuff in contact with

**Detection Limit =** 3 mg/dm<sup>2</sup>
**Recommended Max. Limit=** 10 mg/dm<sup>2</sup>

**Remark(s)=**

1. Recommended max. limit specified by Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments.
2. Analytical tolerance of aqueous simulants is 2 mg/dm<sup>2</sup> or 12 mg/kg
3. Test condition & simulant were specified according to Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments.
4. The ratio of surface area to volume ratio is 1 dm<sup>2</sup> per 1 kg of foodstuff in contact with.
5. The volume of simulant used is 0,1 L
6. The ratio of surface area to volume ratio is 6 dm<sup>2</sup> per 1 kg of foodstuff in contact with.
7. \* = Total food contact surface area of whole article (i.e. sealed container with cap, gaskets, stopper or similar sealing article) is applied in the calculation of the result according to Commission Regulation (EU) No 10/2011 of 14 January 2011 Article 17
8. ^ = Only food contact surface area of cap, gaskets, stopper or similar sealing article is applied in the calculation of the result

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**Overall Migration with %3 Acetic Acid <sup>1</sup>**

**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 1186-1:2002 for selection of test methods;  
EN 1186-3:2002 aqueous food simulants by total immersion method;

**Test Conditions:** 10 days at 40 °C (1<sup>st</sup> migration);

**Simulant Used:** 3% Acetic Acid (W/V) Aqueous Solution

|                       | <b>Result(s) (mg/dm<sup>2</sup>)</b> |
|-----------------------|--------------------------------------|
|                       | <b>A1</b>                            |
| <b>Trial 1</b>        | 5,93                                 |
| <b>Trial 2</b>        | 5,60                                 |
| <b>Trial 3</b>        | 5,02                                 |
| <b>Mean (Average)</b> | 5,52                                 |
| <b>Conclusion</b>     | <b>Pass</b>                          |

**Note(s):** n.d. = not detected  
°C = degree Celsius  
mg/kg = milligram per kilogram of foodstuff in contact with  
mg/dm<sup>2</sup> = milligram per square decimeter of foodstuff in contact with

**Detection Limit =** 3 mg/dm<sup>2</sup>  
**Recommended Max. Limit=** 10 mg/dm<sup>2</sup>

- Remark(s)=**
1. Recommended max. limit specified by Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments.
  2. Analytical tolerance of aqueous simulants is 2 mg/dm<sup>2</sup> or 12 mg/kg
  3. Test condition & simulant were specified according to Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments.
  4. The ratio of surface area to volume ratio is 1 dm<sup>2</sup> per 1 kg of foodstuff in contact with.
  5. The volume of simulant used is 0,1 L
  6. The ratio of surface area to volume ratio is 6 dm<sup>2</sup> per 1 kg of foodstuff in contact with.
  7. \* = Total food contact surface area of whole article (i.e. sealed container with cap, gaskets, stopper or similar sealing article) is applied in the calculation of the result according to Commission Regulation (EU) No 10/2011 of 14 January 2011 Article 17
  8. ^ = Only food contact surface area of cap, gaskets, stopper or similar sealing article is applied in the calculation of the result

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|                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Overall Migration with %20 Ethanol<sup>1</sup></b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Test Method:</b>                                   | With reference to Commission Regulation (EU) No 10/2011 of 14 January 2011 Annex III and Annex V for selection of condition and EN 1186-1:2002 for selection of test methods;<br>EN 1186-3:2002 aqueous food simulants by total immersion method;                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Test Conditions:</b>                               | 10 days at 40 °C (1 <sup>st</sup> migration);                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Simulant Used:</b>                                 | 20% Ethanol (V/V) Aqueous Solution                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|                                                       | <b>Result(s) (mg/dm<sup>2</sup>)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|                                                       | <b>A1</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Trial 1</b>                                        | n.d.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Trial 2</b>                                        | n.d.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Trial 3</b>                                        | n.d.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Mean (Average)</b>                                 | n.d.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Conclusion</b>                                     | <b>Pass</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Note(s):</b>                                       | n.d. = not detected<br>°C = degree Celsius<br>mg/kg = milligram per kilogram of foodstuff in contact with<br>mg/dm <sup>2</sup> = milligram per square decimeter of foodstuff in contact with                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Detection Limit =</b>                              | 3 mg/dm <sup>2</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Recommended Max. Limit=</b>                        | 10 mg/dm <sup>2</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Remark(s)=</b>                                     | <ol style="list-style-type: none"> <li>1. Recommended max. limit specified by Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments.</li> <li>2. Analytical tolerance of aqueous simulants is 2 mg/dm<sup>2</sup> or 12 mg/kg</li> <li>3. Test condition &amp; simulant were specified according to Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments.</li> <li>4. The ratio of surface area to volume ratio is 1 dm<sup>2</sup> per 1 kg of foodstuff in contact with.</li> <li>5. The volume of simulant used is 0,1 L</li> <li>6. The ratio of surface area to volume ratio is 6 dm<sup>2</sup> per 1 kg of foodstuff in contact with.</li> <li>7. * = Total food contact surface area of whole article (i.e. sealed container with cap, gaskets, stopper or similar sealing article) is applied in the calculation of the result according to Commission Regulation (EU) No 10/2011 of 14 January 2011 Article 17</li> <li>8. ^ = Only food contact surface area of cap, gaskets, stopper or similar sealing article is applied in the calculation of the result</li> </ol> |

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**Overall Migration with %50 Ethanol <sup>1</sup>**

**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 1186-1:2002 for selection of test methods;  
EN 1186-3:2002 aqueous food simulants by total immersion method;

**Test Conditions:** 10 days at 40 °C (1<sup>st</sup> migration);

**Simulant Used:** 50% Ethanol (V/V) Aqueous Solution

**Result(s) (mg/dm<sup>2</sup>)**

|                       | <b>A1</b>   |
|-----------------------|-------------|
| <b>Trial 1</b>        | n.d.        |
| <b>Trial 2</b>        | n.d.        |
| <b>Trial 3</b>        | n.d.        |
| <b>Mean (Average)</b> | n.d.        |
| <b>Conclusion</b>     | <b>Pass</b> |

**Note(s):** n.d. = not detected

°C = degree Celsius

mg/kg = milligram per kilogram of foodstuff in contact with

mg/dm<sup>2</sup> = milligram per square decimeter of foodstuff in contact with

**Detection Limit =** 3 mg/dm<sup>2</sup>

**Recommended Max. Limit=** 10 mg/dm<sup>2</sup>

- Remark(s)=**
1. Recommended max. limit specified by Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments.
  2. Analytical tolerance of aqueous simulants is 2 mg/dm<sup>2</sup> or 12 mg/kg
  3. Test condition & simulant were specified according to Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments.
  4. The ratio of surface area to volume ratio is 1 dm<sup>2</sup> per 1 kg of foodstuff in contact with.
  5. The volume of simulant used is 0,1 L
  6. The ratio of surface area to volume ratio is 6 dm<sup>2</sup> per 1 kg of foodstuff in contact with.
  7. \* = Total food contact surface area of whole article (i.e. sealed container with cap, gaskets, stopper or similar sealing article) is applied in the calculation of the result according to Commission Regulation (EU) No 10/2011 of 14 January 2011 Article 17
  8. ^ = Only food contact surface area of cap, gaskets, stopper or similar sealing article is applied in the calculation of the result

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**Overall Migration with %95 Ethanol <sup>1</sup>**

**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 1186-1:2002 for selection of test methods;  
 EN 1186-14:2002 substitute test.

**Test Conditions:** 10 days at 40 °C (1<sup>st</sup> migration);

**Simulant Used:** 95% Ethanol

|                       | Result(s) (mg/dm <sup>2</sup> ) |
|-----------------------|---------------------------------|
|                       | <b>A1</b>                       |
| <b>Trial 1</b>        | n.d.                            |
| <b>Trial 2</b>        | n.d.                            |
| <b>Trial 3</b>        | n.d.                            |
| <b>Mean (Average)</b> | n.d.                            |
| <b>Conclusion</b>     | <b>Pass</b>                     |

**Note(s):** n.d. = not detected  
 °C = degree Celsius

mg/kg = milligram per kilogram of foodstuff in contact with

mg/dm<sup>2</sup> = milligram per square decimeter of foodstuff in contact with

\* Further verification by vegetable oil is recommended for compliance confirmation if the material of the sample is not Nylon, PVC, Organic Coating, Hard and Rigid Plastics, PS, SAN, ABS, Melamine.

**Detection Limit =** 3 mg/dm<sup>2</sup>

**Recommended Max. Limit=** mg/dm<sup>2</sup>

- Remark(s)=**
1. Recommended max. limit specified by Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments.
  2. Analytical tolerance of fatty food simulants is 3 mg/dm<sup>2</sup> or 20 mg/kg
  3. Test condition & simulant were specified according to Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments.
  4. The ratio of surface area to volume ratio is 1 dm<sup>2</sup> per 1 kg of foodstuff in contact with.
  5. The volume of simulant used is 0,1 L
  6. The ratio of surface area to volume ratio is 6 dm<sup>2</sup> per 1 kg of foodstuff in contact with.
  7. \* = Total food contact surface area of whole article (i.e. sealed container with cap, gaskets, stopper or similar sealing article) is applied in the calculation of the result according to Commission Regulation (EU) No 10/2011 of 14 January 2011 Article 17
  8. ^ = Only food contact surface area of cap, gaskets, stopper or similar sealing article is applied in the calculation of the result

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**TEST REPORT**

Job No./Report No TR1128116

Date:15 June 2017

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**Overall Migration with Isooctane <sup>1</sup>**

**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 1186-1:2002 for selection of test methods;  
EN 1186-14:2002 substitute test.

**Test Conditions:** 10 days at 40 °C (performed at 20 °C 2 days )(1<sup>st</sup> migration);

**Simulant Used:** Isooctane

**Result(s) (mg/dm<sup>2</sup>)**

|                       | <b>A1</b>   |
|-----------------------|-------------|
| <b>Trial 1</b>        | n.d.        |
| <b>Trial 2</b>        | n.d.        |
| <b>Trial 3</b>        | n.d.        |
| <b>Mean (Average)</b> | n.d.        |
| <b>Conclusion</b>     | <b>Pass</b> |

**Note(s):** n.d. = not detected  
°C = degree Celsius

mg/kg = milligram per kilogram of foodstuff in contact with

mg/dm<sup>2</sup> = milligram per square decimeter of foodstuff in contact with

\* Further verification by vegetable oil is recommended for compliance confirmation if the material of the sample is not Nylon, PVC, Organic Coating, Hard and Rigid Plastics, PS, SAN, ABS, Melamine.

**Detection Limit =** 3 mg/dm<sup>2</sup>

**Recommended Max. Limit=** 10 mg/dm<sup>2</sup>

- Remark(s)=**
1. Recommended max. limit specified by Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments.
  2. Analytical tolerance of fatty food simulants is 3 mg/dm<sup>2</sup> or 20 mg/kg
  3. Test condition & simulant were specified by client, according to Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments.
  4. # = Reduction factor of 3 is applied according to Commission Regulation (EU) No 10/2011 of 14 January 2011 Annex III, reference number 06.01 and the end use of product is specified by client.
  5. The ratio of surface area to volume ratio is 1 dm<sup>2</sup> per 1 kg of foodstuff in contact with.
  6. The volume of simulant used is 0,1 L
  7. The ratio of surface area to volume ratio is 6 dm<sup>2</sup> per 1 kg of foodstuff in contact with.
  8. \* = Total food contact surface area of whole article (i.e. sealed container with cap, gaskets, stopper or similar sealing article) is applied in the calculation of the result according to Commission Regulation (EU) No 10/2011 of 14 January 2011 Article 17
  9. ^ = Only food contact surface area of cap, gaskets, stopper or similar sealing article is applied in the calculation of the result

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**Overall Migration with MPPO (TENAX)<sup>1</sup>**

**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 1186-1:2002 for selection of test methods; EN 1186-13:2002 test method for overall migration at high temperatures;

**Test Conditions:** 10 days at 40 °C (1<sup>st</sup> migration);

**Simulant Used:** MPPO (TENAX) (Simulant E)

**Simulant Amount:** 4 g used per surface area (dm<sup>2</sup>)

**Result(s) (mg/dm<sup>2</sup>)**

|                       | <b>A1</b>   |
|-----------------------|-------------|
| <b>Trial 1</b>        | n.d.        |
| <b>Trial 2</b>        | n.d.        |
| <b>Trial 3</b>        | n.d.        |
| <b>Mean (Average)</b> | n.d.        |
| <b>Conclusion</b>     | <b>Pass</b> |

**Note(s):** n.d. = not detected  
 °C = degree Celsius  
 mg/dm<sup>2</sup> = milligram per square decimeter of foodstuff in contact with

**Detection Limit =** 3 mg/dm<sup>2</sup>

**Recommended Max. Limit=** 10 mg/dm<sup>2</sup>

- Remark(s)=**
1. Recommended max. limit specified by Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments,
  2. Analytical tolerance of fatty food simulants is 3 mg/dm<sup>2</sup>,
  3. Test condition & simulant were specified by according to Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments,
  4. \* = Total food contact surface area of whole article (i.e. sealed container with cap, gaskets, stopper or similar sealing article) is applied in the calculation of the result according to Commission Regulation (EU) No 10/2011 of 14 January 2011 Article 17
  5. ^ = Only food contact surface area of cap, gaskets, stopper or similar sealing article is applied in the calculation of the result

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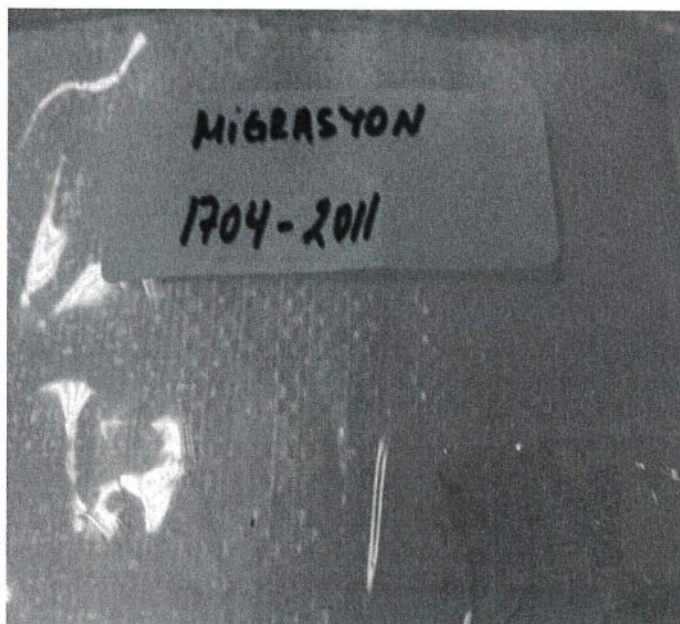
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\* \* \* End of Test Report \* \* \*

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