


**REPORT**

Report No.: 550086/1

Sample number: 1807979

<b>Product description:</b>	ROYAL PET bottle (Resilux PET preform)	
<b>Customer name/address:</b>	Royal Water Hungary Kft. 8083 Csákvár Kossuth utca 58.	
<b>Sample ID:</b>	Royal Water Hungary Kft. PET glass bottle,	
<b>Supplier:</b>	SPILLER Kft.	
<b>Time of shipment:</b>	15:55 06. 08. 2019.	
<b>Packaging / Quantity:</b>	Plastic bag / 12 pcs	
<b>Beginning of analysis / end:</b>	06. 08. 2019. - 04. 09. 2019.	
<b>Tested features:</b>	Migration test	
<b>Comments:</b>	Supplier neve: Royal Water Hungary Kft.	

**Statement of conformity**

Regarding the tested parameters the present sample **complies** with the requirements of the Regulation (EU) No. 10/2011 with the following condition of use:

Food category: water, non-alcoholic, clear beverages

Contact time and temperature: Any long term storage at room temperature or below.



Certificate validity check.

The laboratory is accredited under Reg.  
No: NAH-1-1009/2015 by NAH

Project:  
Migration test  
(2019/E/07694)

Report No.:  
550086/1;  
05.09.2019

## Migration test

### Applied standard

#### Preparatory:

(1) Regulation (EU) No. 10/2011 Annex III. and V.

#### Measurement:

(2) MSZ EN 1186-9:2002

Parameter	Result	Statement of conformity		
		Specification	Source	Evaluation
Overall migration, acetic acid, 3%, 1. analysis (mg/dm <sup>2</sup> )(1. 2)	<1	-	-	-
Overall migration, acetic acid, 3%, 2. analysis (mg/dm <sup>2</sup> )(1. 2)	<1	-	-	-
Overall migration, acetic acid, 3%, 3. analysis (mg/dm <sup>2</sup> )(1. 2)	<1	-	-	-
Overall migration, acetic acid, 3%, average (mg/dm <sup>2</sup> )(1. 2)	<1	max. 10	Regulation (EU) No. 10/2011	<b>Complies</b>

### Test conditions

Type of contact: by filling

Contact surface/food simulant: 5.35 dm<sup>2</sup>/kg

Contact time and temperature: 10 days 40 °C

Food simulant volume: 1500 ml

Contact surface: 8.3 dm<sup>2</sup>

## Migration test

### Applied standard

#### Preparatory:

(1) Regulation (EU) No. 10/2011 Annex III. and V.

#### Measurement:

(2) MSZ EN 1186-9:2002

Parameter	Result	Statement of conformity		
		Specification	Source	Evaluation
Overall migration, ethanol 20%, 1. analysis (mg/dm <sup>2</sup> )(1. 2)	<1	-	-	-
Overall migration, ethanol 20%, 2. analysis (mg/dm <sup>2</sup> )(1. 2)	<1	-	-	-
Overall migration, ethanol 20%, 3. analysis (mg/dm <sup>2</sup> )(1. 2)	<1	-	-	-
Overall migration, ethanol 20%, average (mg/dm <sup>2</sup> )(1. 2)	<1	max. 10	Regulation (EU) No. 10/2011	<b>Complies</b>

### Test conditions

Type of contact: by filling

Contact surface/food simulant: 5.35 dm<sup>2</sup>/kg

Contact time and temperature: 10 days 40 °C

Food simulant volume: 1500 ml

Contact surface: 8.3 dm<sup>2</sup>



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## Specific migration

### Applied standard

#### Preparatory:

- (1) Regulation (EU) No. 10/2011 Annex III. and V.  
 (2) MSZ EN 13130-1:2004

#### Measurement:

- (3) § 35 LMBG L 00.00 6 (1995)  
 (4) EPA Method 6020A:2007

Parameter	Result	Statement of conformity		
		Specification	Source	Evaluation
Primary aromatic amines expressed as Aniline hydrochloride (mg/kg) <sup>(1, 2, 3)</sup>	<0.008	< 0.01	Regulation (EU) No. 10/2011	Complies
Aluminium (mg/kg) <sup>(1, 2, 4)</sup>	<0.1	max. 1	Regulation (EU) No. 10/2011	Complies
Barium (mg/kg) <sup>(1, 2, 4)</sup>	<0.01	max. 1	Regulation (EU) No. 10/2011	Complies
Cobalt (mg/kg) <sup>(1, 2, 4)</sup>	<0.01	max. 0.05	Regulation (EU) No. 10/2011	Complies
Copper (mg/kg) <sup>(1, 2, 4)</sup>	<0.01	max. 5	Regulation (EU) No. 10/2011	Complies
Iron (mg/kg) <sup>(1, 2, 4)</sup>	<0.1	max. 48	Regulation (EU) No. 10/2011	Complies
Lithium (mg/kg) <sup>(1, 2, 4)</sup>	<0.01	max. 0.6	Regulation (EU) No. 10/2011	Complies
Manganese (mg/kg) <sup>(1, 2, 4)</sup>	<0.01	max. 0.6	Regulation (EU) No. 10/2011	Complies
Nickel (mg/kg) <sup>(1, 2, 4)</sup>	<0.01	max. 0.02	Regulation (EU) No. 752/2017	Complies
Zinc (mg/kg) <sup>(1, 2, 4)</sup>	<0.1	max. 5	Regulation (EU) No. 10/2011	Complies
Antimony(mg/kg) <sup>(1, 2, 4)</sup>	<0.01	max. 0.04	Regulation (EU) No. 10/2011	Complies

### Test conditions

Food simulant: acetic acid 3% (m/V)

Type of contact: by filling

Contact surface/food simulant: 5.35 dm<sup>2</sup>/kg

Contact time and temperature: 10 days 60°C

Food simulant volume: 1500 ml

Contact surface: 8.3 dm<sup>2</sup>



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## Specific migration

### Applied standard

#### Preparatory:

(1) Regulation (EU) No. 10/2011 Annex III. and V.

(2) MSZ EN 13130-1:2004

#### Measurement:

(3) EN 13130-7:2004

(4) MSZ EN 13130-2:2004

Parameter	Result	Statement of conformity		
		Specification	Source	Evaluation
Terephthalic acid (CAS: 100-21-0) (mg/kg) <sup>(1, 2, 4)</sup>	<0.8	max. 7.5	Regulation (EU) No. 10/2011	<b>Complies</b>
Isophthalic acid (CAS: 121-95-5) (mg/kg) <sup>(1, 2, 4)</sup>	<0.8	max. 5	Regulation (EU) No. 10/2011	<b>Complies</b>
Ethyleneglycol (CAS:107-21-1) (mg/kg) <sup>(1, 2, 3)</sup>	<1.8	-	-	-
Diethylene glycol (CAS: 111-46-6) (mg/kg) <sup>(1, 2, 3)</sup>	<1.8	-	-	-
Sum of mono-ethylene glycol and di- ethylene glycol (mg/kg) <sup>(1, 2, 3)</sup>	<3.6	max. 30	Regulation (EU) No. 10/2011	<b>Complies</b>

### Test conditions

Food simulant: Ethanol 20% (V/V)

Type of contact: by filling

Contact surface/food simulant: 5.35 dm<sup>2</sup>/kg

Contact time and temperature: 10 days 60°C

Food simulant volume: 1500 ml

Contact surface: 8.3 dm<sup>2</sup>

Ágnes Kovács Dr.  
Deputy Head of Analytical Laboratory  
Department

This test report was generated from a validated system and is valid without a signature.

The laboratory accepts no responsibility for the information provided by the customer.

In the case of samples not taken by the laboratory, results refer only to the samples delivered to the laboratory.

Decision rule: We consider the sample meeting the requirements if the result with the expanded measurement uncertainty overlaps with the range of requirement.

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