

Date: 12/05/2025

MIGRATION TEST REPORT

The migration test results of the final packaging materials performed by an accredited laboratory are presented below (according to the latest amendments of Regulation 10/2011/EC:

PARAMETER	METHOD	RESULT	UoM	LIMIT
Overall Migration ethanol 10%	EN 1186-3:2002	<1.0	mg/dm ²	<10.0
Measurement 1		<1.0	mg/dm ²	
Measurement 2		<1.0	mg/dm ²	
Measurement 3		<1.0	mg/dm ²	
Overall Migration Acetic acid 3%	EN 1186-3:2002	1.2	mg/dm ²	<10.0
Measurement 1		1.5	mg/dm ²	
Measurement 2		<1.0	mg/dm ²	
Measurement 3		1.3	mg/dm ²	
Overall Migration ethanol 20%	EN 1186-3:2002	<1.0	mg/dm ²	<10.0
Measurement 1		<1.0	mg/dm ²	
Measurement 2		<1.0	mg/dm ²	
Measurement 3		<1.0	mg/dm ²	
Overall Migration ethanol 95%	EN 1186-14:2002	<3.0	mg/dm ²	<10.0
Measurement 1		<3.0	mg/dm ²	
Measurement 2		<3.0	mg/dm ²	
Measurement 3		<3.0	mg/dm ²	
Overall Migration Isooctane	EN 1186-14:2002	<3.0	mg/dm ²	<10.0
Measurement 1		<3.0	mg/dm ²	
Measurement 2		<3.0	mg/dm ²	
Measurement 3		<3.0	mg/dm ²	

Declaration of Conformity: Sample is **within** limits according to EU Regulation 10/2011 (as amended 23.09.2020) for plastic materials that will come in contact with all types of food, for any long term storage at room temperature or below, including when packaged under hot-fill conditions, and/ or heating up to a temperature T where $70\text{ °C} \leq T \leq 100\text{ °C}$ for a maximum of $t = 120/2^{((T-70)/10)}$ minutes.

Simulants used: A (Ethanol 10 % (v/v)), B (Acetic acid 3 % (w/v)), C (Ethanol 20 % (v/v)), Isooctane and 95% Ethanol (Substitutes of D2)

Contact conditions: 10 days at 40 °C

Decision Rule: If the measured result x is compared with a unique declared value L, this is considered to be 95% confidence level, when $x-2u < L < x + 2u$ where u is the standard uncertainty (or tolerance).

***Test OM2 covers also food contact conditions described for OM0, OM1 and OM3.**

Test OM0: Any food contact at cold or ambient temperatures and for a short duration (≤ 30 minutes).

Test OM1: Any food contact at frozen and refrigerated conditions.

Test OM3: Any food contact conditions that include hot-fill and/or heating up to a temperature T where $70\text{ °C} \leq T \leq 100\text{ °C}$ for maximum of $t = 120/2^{((T-70)/10)}$ minutes, which are not followed by long-term room temperature or refrigerated storage.

Metals 10/2011

ANALYSIS RESULTS

PARAMETER	METHOD	RESULT	UoM	LIMIT
# Aluminium (Al)	ICP-MS	<0.030	mg/kg	< 1.0
# Antimony (Sb)	ICP-MS	<0.003	mg/kg	< 0.04
# Arsenic (As)	ICP-MS	<0.003	mg/kg	
# Barium (Ba)	ICP-MS	<0.060	mg/kg	< 1.0
# Cadmium (Cd)	ICP-MS	<0.002	mg/kg	
# Calcium (Ca)	ICP-MS	<1.2	mg/kg	
# Chromium (Cr)	ICP-MS	<0.003	mg/kg	
# Cobalt (Co)	ICP-MS	<0.003	mg/kg	< 0.05
# Copper (Cu)	ICP-MS	<0.060	mg/kg	< 5.00
# Europium (Eu)	ICP-MS	<0.003	mg/kg	< 0.050
# Gadolinium (Gd)	ICP-MS	<0.003	mg/kg	< 0.050
# Iron (Fe)	ICP-MS	<0.060	mg/kg	< 48.00
# Lanthanum (La)	ICP-MS	<0.003	mg/kg	< 0.050
# Lead (Pb)	ICP-MS	<0.003	mg/kg	
# Lithium (Li)	ICP-MS	<0.030	mg/kg	<0.6
# Magnesium (Mg)	ICP-MS	<0.300	mg/kg	
# Manganese (Mn)	ICP-MS	<0.001	mg/kg	< 0.6
# Mercury (Hg)	ICP-MS	<0.003	mg/kg	
# Nickel (Ni)	ICP-MS	<0.003	mg/kg	< 0.02
# Potassium (K)	ICP-MS	<1.2	mg/kg	
# Sodium (Na)	ICP-MS	<1.2	mg/kg	
# Terbium (Tb)	ICP-MS	<0.003	mg/kg	< 0.050
# Zinc (Zn)	ICP-MS	<0.06	mg/kg	< 5.0

Conclusion: Sample is **within** limits according to EU Regulation 10/2011 (as amended 23.09.2020) for the specific migration of the tested metals.

Simulants used: B (Acetic acid 3 % (w/v))

Contact conditions: 10 days at 40 °C