

Certificates of analysis

Migration tests on transparent SMMA drinking glasses — accredited laboratory, test reports 286–296 F 2026

Sample: transparent SMMA drinking glasses · **Manufacturer and client:** Unika Srl — Via 1° Maggio 165/A, 30022 Ceggia (VE), Italy

Sampled by: client's representative · **Sampling / delivery date:** 23 January 2026 · **Analyses started:** 23 January 2026 · **Analyses completed:** 30 January – 11 February 2026

Issued in: Villorba (TV), Italy, 6 February 2026 — signed by the laboratory manager

This document summarises, in English, the eleven certificates of analysis (test reports) issued by the accredited laboratory on the Klarity range of transparent SMMA drinking glasses. Applied limits: Article 12, Annex I and Annex II of Regulation (EU) No 10/2011 of 14 January 2011, as amended; Italian Ministerial Decree of 21 March 1973 (Official Gazette no. 104 of 20 April 1973), Annex IV, Section 1.

Summary of test reports

REPORT NO.	TEST	SIMULANT	CONDITIONS	RESULT	LIMIT
286 F 2026	Overall migration (Art. 12 Reg. (EU) 10/2011 · Italian M.D. 21/03/1973)	B — 3% acetic acid	30 min at 40 °C	< 1 mg/dm ²	10 mg/dm ²
287 F 2026	Specific migration: metals and primary aromatic amines (Annex II Reg. (EU) 10/2011)	B — 3% acetic acid	30 min at 40 °C	All below the limits	Annex II
288 F 2026	Overall migration (Art. 12 Reg. (EU) 10/2011 · Italian M.D. 21/03/1973)	C — 20% ethanol	30 min at 40 °C	5.3 mg/dm ²	10 mg/dm ²
289 F 2026	Specific migration: metals and primary aromatic amines (Annex II Reg. (EU) 10/2011)	C — 20% ethanol	30 min at 40 °C	All below the limits	Annex II
290 F 2026	Overall migration (Art. 12 Reg. (EU) 10/2011 · Italian M.D. 21/03/1973)	D1 — 50% ethanol	30 min at 40 °C	< 1 mg/dm ²	10 mg/dm ²

REPORT NO.	TEST	SIMULANT	CONDITIONS	RESULT	LIMIT
291 F 2026	Specific migration: metals and primary aromatic amines (Annex II Reg. (EU) 10/2011)	D1 — 50% ethanol	30 min at 40 °C	All below the limits	Annex II
292 F 2026	Bisphenol A (Annex I Reg. (EU) 10/2011 · EPA 3550C + 8270E)	—	—	< 0.01 mg/kg	—
293 F 2026	Overall migration (Art. 12 Reg. (EU) 10/2011 · Italian M.D. 21/03/1973)	B — 3% acetic acid	2 hours at 70 °C	< 1 mg/dm²	10 mg/dm ²
294 F 2026	Specific migration: metals and primary aromatic amines (Annex II Reg. (EU) 10/2011)	B — 3% acetic acid	2 hours at 70 °C	All below the limits	Annex II
295 F 2026	Overall migration (Art. 12 Reg. (EU) 10/2011 · Italian M.D. 21/03/1973)	C — 20% ethanol	2 hours at 70 °C	< 1 mg/dm²	10 mg/dm ²
296 F 2026	Specific migration: metals and primary aromatic amines (Annex II Reg. (EU) 10/2011)	C — 20% ethanol	2 hours at 70 °C	All below the limits	Annex II

Overall migration determined on the migration solution from the third exposure; surface-to-volume ratio of 6 dm² per kg of food simulant. Method: Italian M.D. 21/03/1973, Annex IV, Section 1. Bisphenol A: EPA 3550C 2007 + EPA 8270E 2018.

Specific migration — parameters and results

Reports no. 287, 289, 291, 294 and 296 F 2026 (supplements to the overall migration reports).
Method UNI EN ISO 22036:2024 unless otherwise stated; results expressed in mg/kg on dry matter.
In each report every parameter was below the detection limit shown.

PARAMETER	RESULT (ALL REPORTS)	LIMIT
Aluminium, Al	< 0.1 mg/kg	1
Ammonium nitrogen, NH ₄	< 1 mg/kg	(§)
Antimony, Sb	< 0.004 mg/kg	0.04
Arsenic, As	< 0.01 mg/kg	< 0.01
Barium, Ba	< 0.1 mg/kg	1
Cadmium, Cd	< 0.002 mg/kg	< 0.002
Calcium, Ca	< 1 mg/kg	(§)
Total chromium, Cr	< 0.01 mg/kg	< 0.01
Cobalt, Co	< 0.005 mg/kg	0.05
Copper, Cu	< 0.5 mg/kg	5
Europium, Eu	< 0.005 mg/kg	0.05
Gadolinium, Gd	< 0.005 mg/kg	0.05
Iron, Fe	< 1 mg/kg	48
Lanthanum, La	< 0.005 mg/kg	0.05
Lead, Pb	< 0.01 mg/kg	< 0.01
Lithium, Li	< 0.06 mg/kg	0.6
Magnesium, Mg	< 1 mg/kg	(§)
Manganese, Mn	< 0.06 mg/kg	0.6
Mercury, Hg	< 0.01 mg/kg	< 0.01
Nickel, Ni	< 0.002 mg/kg	0.02
Potassium, K	< 1 mg/kg	(§)
Sodium, Na	< 1 mg/kg	(§)
Terbium, Tb	< 0.005 mg/kg	0.05
Zinc, Zn	< 0.5 mg/kg	5
Europium + Gadolinium + Lanthanum + Terbium (by calculation)	< 0.01 mg/kg	0.05
Primary aromatic amines (ISS IOP-ER-02 Rev 1)	< 0.002 mg/kg	0.01

(§) Migration subject to Article 11(3) and Article 12 of Regulation (EU) No 10/2011, as amended. The expanded uncertainty is calculated with a coverage factor of 2, for a probability level of 95%. Uncertainty is not reported for values below the detection limit. Uncertainty was not taken into account when comparing measured values with the limits.

Declaration of conformity (as stated in each report)

“For the parameters examined, the sample falls within the applicable limits.”

Each revision cancels and replaces the previous one. The sample description is supplied by the client. Courtesy translation. The official document is issued in Italian by the company indicated; in case of discrepancy the Italian original prevails.