

Table S1. Setup parameters used for the PM100 planetary mill.

	Total time sec	RPM[#]	Reverse condition	Interval time sec	Pause time sec
1 step	90	300	On	20	10

[#]Revolution per minute

Table S2. Microwave digestion program used for the mineralization of vine branch samples.

	Power (watt)	Power (%)	Ramp (min)	Pressure (psi)	Temperature (°C)	Time at Temperature (min)
1 step	800	100	8:00	250	100	1:00
2 step	800	100	15:00	450	180	15:00

Table S3. Microwave operating condition used for the washing cycle of XP-1500 Plus vessels.

	Power (watt)	Power (%)	Ramp (min)	Pressure (psi)	Temperature (°C)	Time at Temperature (min)
1 step	800	100	10:00	800	160	15:00

Table S4. Inductively coupled plasma interfaced to a quadrupolar mass analyzer (ICP/qMS) instrumental setting parameters.

	He/H ₂ flow (mL min ⁻¹)	Delay (s)	Extraction (1)	L1 (1)	L2 (1)	Focus (1)	D1 (1)	D2 (1)	PB (2)
Normal Mode	0	00	-114	-1160	-80	9.4	-43.9	-138	-1.7
3.5 KED	3.5	10	-114	-1160	-80	-10	-43.8	-138	-18
5.0 KED	5	20	-114	-1160	-80	-10	-43.8	-138	-18

	Hex. (2)	Neb. (3)	L3 (1)	Forward (4)	Hor. (5)	Vert. (5)	DA (1)	Cool (6)	Aux. (7)
Normal Mode	-1.2	0.9	-195.3	1400	106	281	-29.8	13	0.61
3.5 KED	-20	0.9	-195.3	1400	106	281	-29.8	13	0.61
5.0 KED	-20	0.9	-195.3	1400	106	281	-29.8	13	0.61

- (1) Potentials, in volts, applied to a series of lenses that allow the focusing of the ion beam.
- (2) Potentials, in volts, applied respectively to the quadrupole mass analyzer (Pole Bias) and the hexapole collision cell (Hexapole Bias).
- (3) Ar flow in L/min, which allows the formation of the sample aerosol and carries the droplets in the plasma torch
- (4) Power (in watts) of RF energy emitted by the generator for the plasma formation.
- (5) Position of the plasma torch in mm.
- (6) Plasma cooling gas in L/min.
- (7) Ar flow in L/min, which contributes to the plasma formation.

Table S5. GPS coordinates for sampling sites A and B, respectively. Data are reported in the degree, minute, seconds (DMS) scale.

Site A	GPS Coordinate
1	N 43 30 57.912 E 11 13 13.140
2	N 43 31 1.470 E 11 13 14.316
Site B	GPS Coordinate
3	N 43 31 3.246 E 11 13 13.938
4	N 43 31 2.700 E 11 13 7.536
5	N 43 30 59.622 E 11 13 7.962
6	N 43 30 27.318 E 11 14 4.278
7	N 43 30 28.260 E 11 14 4.770