

Supplementary data for article:

Milićević, T.; Relić, D.; Škrivanj, S. B.; Tešić, Ž. L.; Popović, A. R. Assessment of Major and Trace Element Bioavailability in Vineyard Soil Applying Different Single Extraction Procedures and Pseudo-Total Digestion. *Chemosphere* **2017**, *171*, 284–293.

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Figure S1. The overview of extracted major and trace elements according to pseudo-total digestion

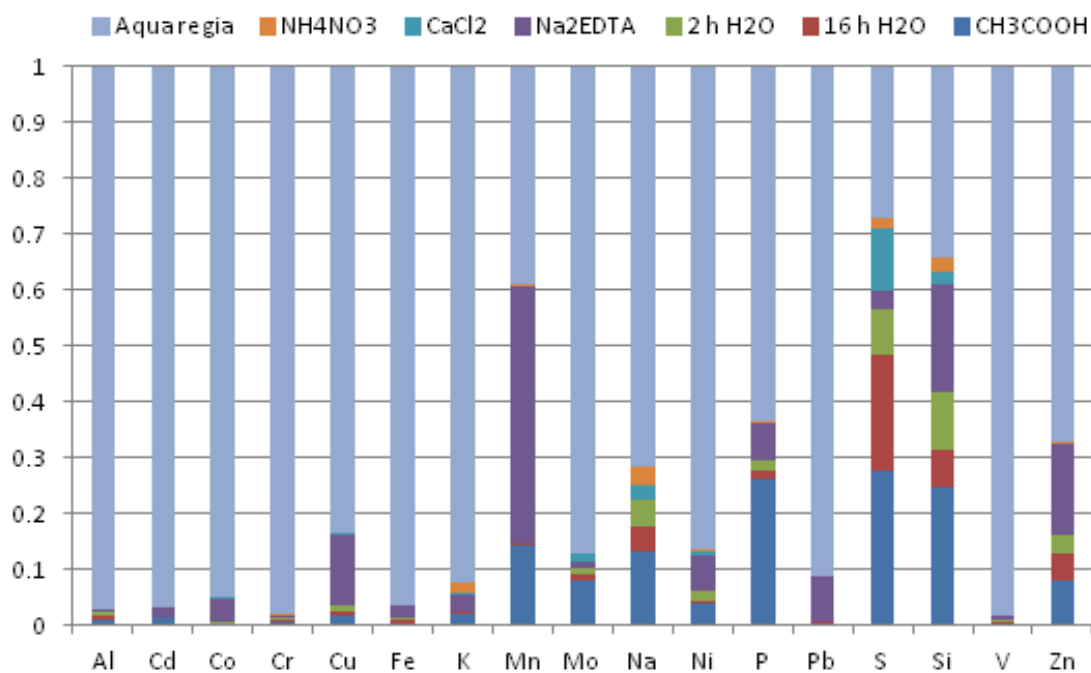


Table S1. Contamination factor and pollution load index of elements in the soil samples

Soil samples	CF Cd	CF Co	CF Cr	CF Cu	CF Fe	CF Mo	CF Ni	CF Pb	CF V	CF Zn	PLI
T1	0.96	1.02	0.89	0.98	1.06	0.83	0.77	0.64	0.94	1.06	0.90
T2	1.03	1.05	0.94	1.06	1.13	0.86	0.57	0.28	0.99	0.97	0.83
T3	0.91	0.93	0.89	0.92	0.81	0.85	0.38	0.10	0.89	0.82	0.65
T4	0.97	0.96	0.92	1.00	0.80	0.92	0.46	0.23	0.95	1.22	0.77
T5	0.99	0.99	1.06	1.01	0.80	0.96	0.60	0.56	0.97	1.30	0.90
T6	0.83	0.88	0.80	0.83	0.69	0.72	0.94	27.3	0.82	0.89	1.16
T10	0.94	0.96	0.93	0.93	0.74	0.81	0.98	0.96	0.91	1.07	0.92
P	0.89	0.87	0.92	0.87	0.77	0.92	0.94	0.43	0.91	0.81	0.82

Table S2. Geo-accumulation index (I_{geo}) and enrichment factor (EF) of elements in the soil samples

	I_{geo}									
	Cd	Co	Cr	Cu	Fe	Mo	Ni	Pb	V	Zn
T1	-0.6	-0.6	-0.7	-0.6	-0.5	-0.9	-1.0	-1.2	-0.7	-0.5
T2	-0.5	-0.5	-0.7	-0.5	-0.4	-0.8	-1.4	-2.4	-0.6	-0.6
T3	-0.7	-0.7	-0.7	-0.7	-0.9	-0.8	-2.0	-3.9	-0.8	-0.9
T4	-0.6	-0.7	-0.7	-0.6	-0.9	-0.7	-1.7	-2.7	-0.7	-0.3
T5	-0.6	-0.6	-0.5	-0.6	-0.9	-0.6	-1.3	-1.4	-0.6	-0.2
T6	-0.9	-0.8	-0.9	-0.8	-1.1	-1.0	-0.7	4.2	-0.9	-0.8
T10	-0.7	-0.6	-0.7	-0.7	-1.0	-0.9	-0.6	-0.7	-0.7	-0.5
P	-0.8	-0.8	-0.7	-0.8	-1.0	-0.7	-0.7	-1.8	-0.7	-0.9
	EF_{Al}									
	Cd	Co	Cr	Cu	Fe	Mo	Ni	Pb	V	Zn
T1	1.0	1.1	0.9	1.0	1.1	0.9	0.8	0.7	1.0	1.1
T2	1.0	1.0	0.9	1.0	1.1	0.8	0.6	0.3	1.0	1.0
T3	1.1	1.2	1.1	1.2	1.0	1.1	0.5	0.1	1.1	1.0
T4	1.3	1.3	1.2	1.3	1.1	1.2	0.6	0.3	1.3	1.6
T5	1.1	1.1	1.1	1.1	0.9	1.0	0.7	0.6	1.1	1.4
T6	1.3	1.4	1.3	1.3	1.1	1.2	1.5	44	1.3	1.4
T10	1.3	1.3	1.2	1.3	1.0	1.1	1.3	1.3	1.2	1.4
P	1.2	1.1	1.2	1.1	1.0	1.2	1.2	0.6	1.2	1.1

Table S3. Bioaccumulation factor of Cu, Ni and Zn in different grapevine parts and species from soil samples

Grapevine species and parts samples/soil	Cu	Ni	Zn
BF factor grapevine parts/T2			
Riesling Rain seed (*RRSE)/soil	*	*	*
Burgundac seed (*BSE)/soil	*	*	*
Burgundac pulp (*BP)/soil	*	*	*
Riesling Rain skin (*RRS)/soil	*	*	*
Burgundac skin (*BS)/soil	*	*	*
Riesling Rain leaf (*RRL)/soil	1.19	*	1.77
Burgundac leaf (*BL)/soil	1.02	*	*
BF factor grapevine parts/T3			
Cabernet Sauvignon seed (*CSSE)/soil	*	*	*
Cabernet Sauvignon pulp (*CSP)/soil	*	*	*
Cabernet Sauvignon skin (*CSS)/soil	*	*	*
Cabernet Sauvignon leaf (*CSL)/soil	*	*	1.36
Riesling Italian leaf (*RIL)/soil	1.66	*	1.66
BF factor grapevine parts/T4			
Prokupac seed (*PSE)/soil	*	*	*
Cabernet Sauvignon seed (*CSSE)/soil	*	*	*
Cabernet Sauvignon pulp (*CSP)/soil	*	*	*
Prokupac skin (*PS)/soil	*	4.89	*
Cabernet Sauvignon skin (*CSS)/soil	*	*	*
Prokupac leaf (*PL)/soil	*	*	*
Cabernet Sauvignon leaf (*CSL)/soil	*	*	*
BF factor grapevine parts/T6			
Cabernet Franc seed (*CSSE)/soil	*	*	*
Cabernet Franc skin (*CFS)/soil	*	*	*
Cabernet Franc leaf (*CFL)/soil	*	*	1.66
BF factor grapevine parts/T10			
Cabernet Franc seed (*CSSE)/soil	*	*	*
Merlot seed (*MSE)/soil	*	*	*
Cabernet Franc skin (*CFS)/soil	*	*	*
Merlot skin (*MS)/soil	*	*	*
Cabernet Franc leaf (*CFL)/soil	*	*	1.38
Merlot leaf (*ML)/soil	*	*	*
BF factor grapevine parts/P			
Cabernet Franc seed (*CSSE)/soil	*	*	*
Cabernet Franc skin (*CFS)/soil	*	*	*
Cabernet Franc leaf (*CFL)/soil	*	*	1.82

*calculated values lower than 1