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Table S1. Arithmetic means on fresh mass basis for macro- and trace elements of rowan fruits from the Alpine-Dinaric region in Croatia

Population ID	w/(mg/kg)											
	K	Ca	P	Mg	Na	Fe	Mn	Zn	Cu	Mo	Co	Se
P01	2362	409	242	161	9.14	2.66	1.04	0.786	0.584	0.168	0.002	0.001
P02	2738	498	225	236	5.37	4.90	9.91	1.897	0.767	0.093	0.006	0.002
P03	2273	422	189	200	7.45	3.70	6.06	1.226	0.725	0.026	0.003	0.001
P04	1581	391	98	119	2.53	2.72	2.45	0.625	0.442	0.086	0.002	0.000
P05	2242	296	190	174	4.66	3.30	2.94	1.419	0.824	0.076	0.002	0.001
P06	2599	450	170	211	2.56	3.41	3.29	1.101	0.895	0.071	0.003	0.001
P07	2201	396	224	165	4.61	3.59	1.78	0.840	0.581	0.057	0.002	0.001
P08	1887	374	237	190	8.66	3.40	2.46	0.981	0.691	0.149	0.005	0.001
P11	2642	593	201	204	5.99	4.41	3.19	1.210	0.682	0.147	0.002	0.002
P12	2978	491	208	213	5.74	3.95	2.93	1.095	0.960	0.073	0.002	0.001
Total	2485	459	206	193	6.29	3.68	3.58	1.113	0.731	0.098	0.003	0.001

Sampling sites: P01=Crni Lug, P02=Risnjak, P03=Mrzla Vodica, P04=Jasenak, P05=Mala Javornica, P06=Duliba, P07=Miskovica, P08=Stolac, P09=Senjsko Bilo, P10=Jelovac, P11=Velebit, P12=Mali Alan

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Table S2. Spearman's correlation coefficients between proximate chemical composition, antioxidant potential and elements (K, Ca, P, Mg, Na, Fe, Mn, Zn, Cu, Mo, Co and Se) detected in rowan fruits

	Ash	Fat	Protein	TCarb	Cellul	Phenols	FRAP	DPPH	K	Ca	P	Mg	Na	Fe	Mn	Zn	Cu	Mo	Co	Se
Water	−0.321	−0.006	0.018	**−0.927**	−0.067	−0.491	−0.006	0.224	−0.442	−0.527	−0.055	**−0.673**	−0.188	−0.564	−0.321	−0.091	−0.406	−0.067	−0.552	−0.067
Ash		0.103	0.164	0.079	0.418	0.200	0.406	−0.030	**0.745**	0.467	0.018	**0.636**	−0.200	0.321	0.333	0.370	**0.685**	0.164	0.030	0.091
Fat			0.370	−0.164	0.103	−0.248	0.127	0.212	−0.030	−0.067	0.273	0.224	−0.200	0.455	0.176	0.406	0.018	−0.006	0.358	0.127
Protein				−0.152	**0.782**	0.430	0.345	−0.006	−0.006	0.261	−0.345	0.139	−0.491	0.285	0.406	0.309	−0.200	0.152	0.164	0.503
TCarb					−0.152	0.430	−0.127	−0.127	0.224	0.358	−0.103	0.430	0.152	0.382	0.127	−0.127	0.261	−0.079	0.382	−0.091
Cellul						0.430	**0.648**	0.055	0.273	0.345	−0.370	0.442	−0.285	0.285	**0.745**	0.624	0.285	0.127	0.285	0.552
Phenols							−0.091	−0.624	0.055	0.224	0.006	0.103	0.139	−0.067	0.030	−0.164	−0.091	**0.661**	0.067	0.127
FRAP								0.382	0.079	−0.018	−0.564	0.394	−0.624	0.127	**0.636**	0.491	0.539	−0.406	0.418	0.055
DPPH									0.055	−0.067	−0.503	0.188	−0.370	0.261	0.406	0.527	0.418	**−0.830**	0.030	0.200
K										**0.855**	0.176	**0.818**	0.200	**0.673**	0.503	0.503	**0.636**	0.006	0.164	0.491
Ca											0.030	**0.733**	0.115	**0.782**	0.527	0.358	0.285	−0.018	0.285	**0.661**
P												0.042	**0.673**	0.042	−0.333	−0.091	−0.103	0.576	0.103	0.055
Mg													0.067	**0.830**	**0.782**	**0.697**	**0.770**	−0.164	**0.636**	0.503
Na														0.030	−0.079	0.055	0.006	0.479	−0.030	0.103
Fe															**0.685**	0.624	0.382	−0.261	0.576	0.600
Mn																**0.879**	0.600	−0.309	0.576	0.612
Zn																	**0.636**	−0.212	0.382	0.588
Cu																		−0.285	0.321	0.115
Mo																			−0.224	−0.067
Co																				0.358

Significant correlations (p<0.05) are marked in bold. TCarb=total carbohydrate, Cellul=cellulose