

Supporting information

Mean concentration and relative standard deviation (RSD%) of elements ($\mu\text{g/kg}$) in onion samples analyzed by ICP-MS

	Capo Vaticano	Amantea	Nocera Terinese	Briatico	Agrigento	Salerno	Piemonte	Holland
Al	383 $\pm$ 217	178 $\pm$ 98	509 $\pm$ 379	438 $\pm$ 344	108 $\pm$ 207	601 $\pm$ 478	132 $\pm$ 100	287 $\pm$ 225
Ba	603 $\pm$ 157	102 $\pm$ 24	358 $\pm$ 88	1155 $\pm$ 421	1504 $\pm$ 470	274 $\pm$ 36	94 $\pm$ 15	15.4 $\pm$ 5.1
Ca	190440 $\pm$ 61425	293099 $\pm$ 65818	388861 $\pm$ 56409	224532 $\pm$ 51178	272348 $\pm$ 37325	228236 $\pm$ 31562	249930 $\pm$ 37378	150674 $\pm$ 38930
Cd	9.97 $\pm$ 5.28	3.55 $\pm$ 2.04	4.05 $\pm$ 2.11	15.1 $\pm$ 13.5	2.76 $\pm$ 0.78	4.55 $\pm$ 1.08	4.04 $\pm$ 1.52	12.9 $\pm$ 3.5
Ce	0.931 $\pm$ 0.626	0.198 $\pm$ 0.213	0.414 $\pm$ 0.520	0.478 $\pm$ 0.529	< LOD	0.684 $\pm$ 0.779	0.343 $\pm$ 0.381	0.158 $\pm$ 0.197
Cr	7.34 $\pm$ 8.19	9.39 $\pm$ 6.40	24.5 $\pm$ 26.9	56.3 $\pm$ 45.9	14.5 $\pm$ 8.1	21.2 $\pm$ 11.7	11.2 $\pm$ 4.6	26.5 $\pm$ 17.0
Dy	0.113 $\pm$ 0.038	0.027 $\pm$ 0.012	0.032 $\pm$ 0.027	0.036 $\pm$ 0.021	0.008 $\pm$ 0.005	0.034 $\pm$ 0.036	0.003 $\pm$ 0.002	0.009 $\pm$ 0.006
Eu	0.205 $\pm$ 0.049	0.035 $\pm$ 0.011	0.117 $\pm$ 0.033	0.361 $\pm$ 0.132	0.502 $\pm$ 0.154	0.099 $\pm$ 0.022	0.033 $\pm$ 0.011	0.005 $\pm$ 0.003
Fe	1231 $\pm$ 238	1458 $\pm$ 337	1473 $\pm$ 384	1366 $\pm$ 444	1103 $\pm$ 410	911 $\pm$ 253	1305 $\pm$ 235	1248 $\pm$ 346
Ga	18.8 $\pm$ 4.8	3.27 $\pm$ 0.78	11.7 $\pm$ 2.9	38.3 $\pm$ 14.2	46.7 $\pm$ 15.1	8.79 $\pm$ 1.16	2.94 $\pm$ 0.51	0.496 $\pm$ 0.182

Gd	0.106±0.052	0.027±0.024	0.058±0.044	0.067±0.046	0.018±0.008	0.062±0.064	0.023±0.026	0.021±0.012
Ho	0.014±0.004	0.005±0.003	0.006±0.005	0.006±0.004	0.002±0.001	0.008±0.007	0.004±0.002	0.002±0.002
La	1.08±0.48	0.093±0.092	0.184±0.217	0.863±0.666	< LOD	0.331±0.354	0.152±0.165	0.133±0.196
Mg	92341±7406	111202±9842	100593±12265	79623±7678	89478±12450	126210±11382	99237±13570	85341±10021
Mn	1587±554	1620±340	1688±311	1916±1028	1048±158	1012±170	1457±253	962±211
Na	38652±16907	48993±21311	21590±11353	30053±14805	12776±4479	9163±1500	39844±16308	34894±7340
Nd	0.741±0.603	0.117±0.112	0.199±0.219	0.306±0.267	0.021±0.012	0.297±0.312	0.101±0.171	0.053±0.044
Ni	19.8±7.7	95.6±28.4	82.8±19.7	31.3±23.4	27.2±7.4	6.11±4.36	84.5±20.9	34.1±8.4
Pr	0.174±0.131	0.023±0.025	0.055±0.061	0.086±0.071	0.005±0.004	0.074±0.086	0.037±0.044	0.014±0.014
Rb	619±316	318±83	317±71	1137±553	158±29	1401±165	350±73	484±66
Sm	0.355±0.082	0.067±0.031	0.206±0.063	0.557±0.204	0.711±0.215	0.175±0.062	0.061±0.034	0.019±0.012
Sr	3373±942	829±151	1461±207	1875±386	11906±1772	931±99	957±138	883±179
Tl	1.88±1.41	0.576±0.132	0.667±0.271	6.87±3.27	0.945±0.676	1.32±0.26	1.00±0.56	0.395±0.133
Y	0.437±0.168	0.094±0.043	0.149±0.116	0.261±0.179	0.108±0.031	0.139±0.141	0.032±0.024	0.033±0.031
Zn	1346±252	1134±196	1219±195	1372±262	1630±240	1539±238	964±147	2584±351

