

Table S1. aw, initial and final moisture and proximal composition of the studied samples, by their altitude.

Sample	Water activity (aw)			Initial Moisture (Mo) wb*			Final Moisture (Mf) db**			Ash db			Fat db			Crude Protein db			Crude Fibre db			NNE db		
Altitude 1																								
1	0.42a	±	0.01	15.36c	±	0.16	8.21a	±	0.39	3.01bc	±	0.01	5.67a	±	0.11	16.89c	±	0.04	7.87a	±	0.16	66.56f	±	0.08
2	0.33cd	±	0.01	14.94d	±	0.11	6.50cd	±	0.07	3.08bc	±	0.03	5.52a	±	0.15	15.83d	±	0.04	7.27bc	±	0.12	68.30e	±	0.10
3	0.32d	±	0.01	14.60e	±	0.15	6.15d	±	0.15	2.74d	±	0.07	3.57c	±	0.10	17.51ab	±	0.25	6.76c	±	0.29	69.42bc	±	0.38
4	0.34cd	±	0.00	15.04d	±	0.08	7.23b	±	0.13	2.41e	±	0.04	4.79b	±	0.19	16.02d	±	0.30	7.33b	±	0.05	69.45b	±	0.10
5	0.36bc	±	0.01	15.70b	±	0.14	7.89a	±	0.06	3.53a	±	0.10	5.78a	±	0.15	17.00bc	±	0.14	8.26a	±	0.22	65.42g	±	0.11
6	0.35cd	±	0.01	16.04a	±	0.08	8.11a	±	0.09	3.15b	±	0.02	5.05b	±	0.01	14.37e	±	0.03	6.94bc	±	0.17	70.49a	±	0.18
7	0.35cd	±	0.02	14.81de	±	0.02	6.71c	±	0.15	1.19f	±	0.01	5.53a	±	0.10	14.91e	±	0.18	7.87a	±	0.02	70.50a	±	0.29
8	0.35cd	±	0.03	15.47bc	±	0.06	6.74c	±	0.03	2.97c	±	0.08	3.47c	±	0.07	17.87a	±	0.41	6.81bc	±	0.29	68.88cd	±	0.13
9	0.39ab	±	0.01	15.05d	±	0.07	6.88bc	±	0.06	3.02bc	±	0.01	5.49a	±	0.02	16.16d	±	0.10	6.79c	±	0.11	68.54de	±	0.01
Altitude 2																								
10	0.34cd	±	0.02	15.12cd	±	0.05	6.75d	±	0.04	3.37ab	±	0.02	4.79bc	±	0.19	15.16f	±	0.17	7.24cd	±	0.21	69.44de	±	0.25
11	0.41ab	±	0.01	16.24a	±	0.09	9.19a	±	0.30	2.86def	±	0.00	6.03a	±	0.16	16.39c	±	0.00	6.94de	±	0.11	67.78gh	±	0.28
12	0.35c	±	0.01	15.01d	±	0.15	6.75d	±	0.04	1.96g	±	0.04	3.74de	±	0.00	16.02d	±	0.25	7.02de	±	0.24	71.25a	±	0.04
13	0.34ce	±	0.02	15.59bc	±	0.20	6.82d	±	0.25	2.61f	±	0.00	3.56e	±	0.07	17.23b	±	0.02	6.82e	±	0.07	69.79de	±	0.03
14	0.45a	±	0.02	16.09ab	±	0.14	9.40a	±	0.06	2.99cd	±	0.05	3.56e	±	0.16	15.34ef	±	0.04	7.45bc	±	0.10	70.65ab	±	0.25
15	0.41ab	±	0.02	14.90d	±	0.20	8.00b	±	0.19	2.87de	±	0.00	5.79a	±	0.01	15.95d	±	0.06	7.17cd	±	0.03	68.22fg	±	0.05
16	0.32cd	±	0.01	15.44cd	±	0.11	7.88b	±	0.13	3.55a	±	0.29	4.71c	±	0.16	15.19f	±	0.16	7.66ab	±	0.09	68.90ef	±	0.68
17	0.33cd	±	0.02	14.08e	±	0.06	5.59e	±	0.01	3.21bc	±	0.01	5.15b	±	0.08	17.19b	±	0.12	7.49bc	±	0.05	66.96h	±	0.16
18	0.37bc	±	0.01	15.36cd	±	0.41	7.97b	±	0.22	2.71ef	±	0.02	5.11bc	±	0.22	17.74a	±	0.11	6.12f	±	0.07	68.32fg	±	0.29
19	0.35c	±	0.01	14.30e	±	0.26	6.02e	±	0.16	2.94de	±	0.01	3.99d	±	0.07	15.69de	±	0.03	7.10de	±	0.13	70.28bcd	±	0.02
20	0.33cd	±	0.03	14.95d	±	0.10	7.33c	±	0.12	3.36ab	±	0.04	5.62a	±	0.12	15.36ef	±	0.14	7.89a	±	0.05	67.77gh	±	0.18
21	0.30d	±	0.02	14.09e	±	0.10	5.89e	±	0.15	2.78def	±	0.07	3.54e	±	0.24	15.89d	±	0.07	7.21cd	±	0.04	70.58abc	±	0.42

Mean values ± Standard Deviation. (n=3). For each altitude, values in the same column followed by different letters differ at a significance level of 0.05 according to Tukey's test.

*wb: wet basis; ** db: dry basis.

Mo (g 100 g⁻¹); Mf (g 100 g⁻¹); Ash (g.100 g⁻¹); Fat (g 100 g⁻¹); Crude Protein (g 100 g⁻¹); Crude Fiber (g 100 g⁻¹); NNE: Non- nitrogenous extract (g 100 g⁻¹).

Table S1 (Cont.). aw, initial humidity and proximal composition of the studied samples, by their altitude.

Sample	Water activity (aw)			Initial Moisture (Mo) wb*			Final Moisture (Mf) db**			Ash db			Fat db			Crude Protein db			Crude Fibre db			NNE db		
Altitude 3																								
22	0.38abcd	±	0.00	16.20a	±	0.18	8.76b	±	0.03	2.06h	±	0.10	5.83bcd	±	0.02	14.73g _h	±	0.08	8.28ab	±	0.14	69.10bc	±	0.06
23	0.38bcd	±	0.01	15.73bc	±	0.14	7.92e	±	0.06	3.30ab	±	0.03	5.83bcd	±	0.05	17.00b	±	0.24	7.17def	±	0.30	66.70e	±	0.56
24	0.41ab	±	0.03	15.63c	±	0.12	8.19de	±	0.04	2.64g	±	0.04	6.94a	±	0.33	16.95b _c	±	0.13	7.17def	±	0.12	66.30e	±	0.30
25	0.40abc	±	0.01	15.03d	±	0.19	6.86g	±	0.06	2.54g	±	0.03	4.92ef	±	0.14	15.84e	±	0.12	7.06ef	±	0.38	69.64b	±	0.09
26	0.33def	±	0.01	14.85de	±	0.13	7.29f	±	0.20	3.33a	±	0.01	4.62fg	±	0.08	13.86i	±	0.14	6.79f	±	0.28	71.39a	±	0.06
27	0.26g	±	0.04	14.49ef	±	0.13	6.09h	±	0.10	3.20bc	±	0.04	4.64fg	±	0.17	16.46d	±	0.14	7.96abc	±	0.18	67.74d	±	0.44
28	0.33def	±	0.03	14.10f	±	0.13	6.86g	±	0.05	3.06de	±	0.03	5.66bcd	±	0.27	15.17f	±	0.03	7.73abcd	±	0.07	68.39cd	±	0.34
29	0.32ef	±	0.01	14.11f	±	0.07	6.78g	±	0.19	2.94ef	±	0.00	4.94ef	±	0.02	15.87e	±	0.13	7.18def	±	0.00	69.07bc	±	0.11
30	0.28fg	±	0.01	14.33f	±	0.09	6.01h	±	0.04	3.20bc	±	0.01	5.36de	±	0.03	15.65e	±	0.05	7.73abcd	±	0.23	68.06d	±	0.24
31	0.42ab	±	0.01	15.87abc	±	0.13	8.24cd	±	0.02	3.01de	±	0.04	5.59cd	±	0.18	15.60e	±	0.28	7.34def	±	0.02	68.46cd	±	0.04
32	0.34def	±	0.02	15.78abc	±	0.22	8.46bcd	±	0.05	2.84f	±	0.05	6.12b	±	0.01	17.45a	±	0.19	7.65cde	±	0.02	65.94e	±	0.22
33	0.35cde	±	0.03	14.11f	±	0.09	6.00h	±	0.01	3.26ab	±	0.01	3.82h	±	0.18	16.57c _d	±	0.06	6.92f	±	0.38	69.43b	±	0.63
34	0.28fg	±	0.03	14.20f	±	0.08	6.13h	±	0.03	3.08cd	±	0.04	5.67bcd	±	0.27	14.53h	±	0.08	7.68bcd	±	0.10	69.03bc	±	0.13
35	0.44a	±	0.02	16.12abc	±	0.09	9.24a	±	0.22	3.25ab	±	0.01	5.85bc	±	0.12	15.09fg	±	0.02	7.95abc	±	0.12	67.87d	±	0.20
36	0.34cde	±	0.01	15.59c	±	0.22	8.52bc	±	0.09	3.05de	±	0.05	4.42g	±	0.03	15.04fg	±	0.10	8.29a	±	0.08	69.20bc	±	0.09
Altitude 4																								
37	0.36abcd	±	0.01	14.05fg	±	0.07	5.72fg	±	0.04	2.54g	±	0.04	4.92cd	±	0.26	16.60b _c	±	0.11	6.91def	±	0.08	69.03de	±	0.11
38	0.26e	±	0.01	14.07fg	±	0.11	5.90f	±	0.44	2.21i	±	0.02	5.65b	±	0.03	14.96d	±	0.04	7.62bc	±	0.06	69.56cd	±	0.01
39	0.35bcd	±	0.01	15.05bcd	±	0.07	7.29bcd	±	0.13	3.33a	±	0.03	4.35f	±	0.03	16.66b _c	±	0.12	7.76ab	±	0.08	67.91f	±	0.10
40	0.41a	±	0.01	14.81d	±	0.02	7.26cd	±	0.06	3.08c	±	0.02	5.01c	±	0.16	16.58b _c	±	0.04	6.56fg	±	0.07	68.77e	±	0.21
41	0.40ab	±	0.01	15.15bc	±	0.10	7.75b	±	0.12	2.84e	±	0.03	5.09c	±	0.05	17.97a	±	0.24	6.30g	±	0.12	67.81fg	±	0.34
42	0.35bcd	±	0.03	14.45e	±	0.10	7.17cd	±	0.15	2.44h	±	0.03	4.72cdef	±	0.06	14.95d	±	0.10	7.18de	±	0.20	70.72a	±	0.13
43	0.28e	±	0.00	14.86cd	±	0.07	6.66e	±	0.24	3.27ab	±	0.00	4.73cdef	±	0.10	16.69b _c	±	0.08	6.80ef	±	0.18	68.50e	±	0.19
44	0.35cd	±	0.01	14.32ef	±	0.18	6.94de	±	0.05	2.98d	±	0.00	4.83cde	±	0.25	16.45c	±	0.22	6.69fg	±	0.25	69.05de	±	0.22
45	0.34d	±	0.03	15.20b	±	0.05	7.62bc	±	0.03	2.80ef	±	0.05	5.93ab	±	0.17	15.15d	±	0.18	6.74f	±	0.20	69.38d	±	0.16
46	0.40abc	±	0.01	15.65a	±	0.12	8.42a	±	0.04	3.19b	±	0.03	6.13a	±	0.10	15.35d	±	0.23	8.08a	±	0.19	67.26g	±	0.11

47	0.35cd	± 0.03	15.15bc	± 0.04	7.06de	± 0.02	2.88de	± 0.04	3.43g	± 0.16	16.80b _c	± 0.00	6.84def	± 0.06	70.03bc	± 0.18
48	0.33d	± 0.01	15.12bc	± 0.05	7.54bc	± 0.01	2.95d	± 0.03	4.59def	± 0.06	16.96b	± 0.07	7.61bc	± 0.08	67.90f	± 0.18
49	0.28e	± 0.02	13.91g	± 0.20	5.40g	± 0.06	2.73f	± 0.04	4.51ef	± 0.02	15.26d	± 0.23	7.25cd	± 0.03	70.25ab	± 0.32

Mean values ± Standard Deviation. (n=3). For each altitude, values in the same column followed by different letters differ at a significance level of 0.05 according to Tukey's test.

*wb: wet basis; ** db: dry basis.

Mo (g 100 g⁻¹); Mf (g 100 g⁻¹); Ash (g 100 g⁻¹); Fat (g 100 g⁻¹); Crude Protein (g 100 g⁻¹); Crude Fiber (g 100 g⁻¹); NNE: Non- nitrogenous extract (g 100 g⁻¹).

Table S2. Mineral composition of the studied samples, by altitude range.

Sample	Ca	P	Mg	K	Na	Cu	Fe	Mn	Zn
Altitude 1									
1	49.44±5.23b	719.59±4.71a	194.78±0.71bcd	795.35±7.29b	2.33±0.05bc	0.38±0.05bc	4.44±0.12c	0.7±0.06cd	3.3±0.06a
2	34.67±1.25e	457.95±21.15e	186.37±5.26d	899.92±26.33a	1.44±0.05ef	0.32±0.01c	3.78±0.16de	0.64±0.01d	3.35±0.05a
3	42.67±0.49d	520.13±10.25cd	191.07±0.27bcd	753.66±1.08cd	1.59±0.01e	0.37±0.05bc	4.41±0.16c	0.64±0.01d	3.29±0.11a
4	48.68±0.37bc	546.86±11.05bcd	198.37±5.48bc	782.76±0.92bc	1.98±0.05d	0.54±0.01a	5.2±0.16a	0.86±0.01b	3.22±0.01ab
5	60.69±0.31a	544.85±5.23bcd	221.17±5.33a	749.84±5.65cd	2.21±0.05c	0.32±0.01c	3.45±0.01f	0.76±0.01c	2.64±0.05c
6	58.38±0.17a	513.51±16.01d	194.59±0.17bcd	745.95±0.65d	2.54±0.16b	0.54±0.01a	3.51±0.05ef	1.3±0.01a	3.3±0.05a
7	50.21±0.12b	416.18±0.58f	170.74±0.24e	805.68±4.88b	3.09±0.11a	0.43±0.01b	3.95±0.11d	1.23±0.05a	2.72±0.06c
8	41.79±0.17d	549.73±16.1bc	208.15±5.37b	789.9±21.47b	1.33±0.05f	0.21±0.01d	4.8±0.01b	0.64±0.01d	3.26±0.05ab
9	43.55±0.29cd	555.75±10.54b	197.72±5.29bcd	689.35±5.17e	1.92±0.01d	0.43±0.01b	3.9±0.05d	0.69±0.05cd	3.1±0.01b
Altitude 2									
10	40.89±0.63d	528.43±16.1d	224.18±0.08b	854.03±10.82a	1.6±0.11e	0.37±0.05bc	4.27±0.01ef	0.75±0bc	2.99±0.01de
11	47.22±1.02c	600.55±1.67ab	212.92±5.2cd	693.37±6.63e	2.51±0.01bc	0.27±0.05ef	4.48±0.01de	0.86±0.12b	3.49±0.01b
12	41.1±0.09d	555.1±10.76cd	202.83±0.08de	784.61±5.51	1.23±0.16f	0.32±0.01de	4.86±0.16c	0.69±0.05c	3.1±0.11cde
13	47.69±0.48c	453.97±5.95e	170.9±0.4f	699.64±4.74ec	2.3±0.06cd	0.64±0.01b	5.23±0.1b	1.01±0.05a	3.26±0.05c
14	56.39±0.41b	568.87±22.03bc	246.14±5.54a	836.89±5.25ab	2.08±0.01d	0.77±0.01a	3.83±0.11g	0.66±0.01c	3.83±0.11a
15	47.3±0.02c	566.98±5.99bc	221.39±5.21bc	631.76±15.66f	2.21±0.06d	0.16±0.05g	4.1±0.01f	0.67±0.03c	2.92±0.01e
16	62.95±0.30a	609.51±15.81a	199.58±5.53e	830.67±11.37ab	2.1±0.06d	0.27±0.05ef	4.75±0.11c	0.49±0.05d	3.29±0.06bc
17	55.96±0.96b	586±5.25abc	221.73±0.02bc	818.29±5.24b	2.59±0.05b	0.32±0.01de	4.7±0.05cd	0.74±0.01bc	2.16±0.16f
18	57.12±1.2b	610.01±15.62a	199.74±5.21e	620.82±6.14f	2.32±0.16bcd	0.43±0.01c	5.61±0.01a	0.74±0.03bc	3.94±0.05a
19	42.36±0.2d	524.81±5.74d	180.24±0.27f	758.06±5.95d	1.48±0.01ef	0.32±0.01de	4.29±0.05ef	0.69±0.05c	3.02±0.05de
20	59.03±5.09ab	574.19±15.81abc	203.92±0.23de	756.65±5.02d	3.81±0.16a	0.21±0.01fg	2.79±0.01h	0.64±0.01c	2.68±0.01f
21	55.96±0.96c	586±5.25e	221.73±0.02e	818.29±5.24d	2.59±0.05f	0.32±0.01fg	4.7±0.05g	0.74±0.01bc	2.16±0.16cd

Mean values ± Standard Deviation. (n=3). For each altitude, values in the same column followed by different letters differ at a significance level of 0.05 according to Tukey's test.

Mineral content expressed on mg100 g⁻¹ dry basis.

Table S2. (Cont.). Mineral composition of the studied samples, by their altitude.

Sample	Ca	P	Mg	K	Na	Cu	Fe	Mn	Zn
Altitude 3									
22	57.1±2.41b	565.57±0.15bc	222.96±5.41ab	837.47±0.23ab	3.86±0.05 ^a	0.16±0.05e	3.97±0.16c	0.65±0.01cdef	3.1±0.16cdef
23	56.87±0.62bc	539.61±0.29def	188.86±5.45efg	820.2±11.02bc	3.18±0.16bc	0.32±0.01bcd	3.99±0.11c	0.59±0.05efg	3.08±0.05cdef
24	52.9±0.89bc	524.7±5.52ef	194.73±0.07def	762.71±5.25gh	2.43±0.27ef	0.32±0.01bcd	4.27±0.05b	0.54±0.01fgh	3.41±0.16bc
25	48.35±0.3d	443.46±5.47i	192.34±0.11ef	726.63±0.43i	3.47±0.16ab	0.21±0.01de	5.08±0.16 ^a	0.64±0.01defg	3.37±0.05bcd
26	54.5±0.32bcd	552.53±4.94de	209.22±5.56c	793.94±1.49de	3.22±0.01bc	0.32±0.11bcd	2.84±0.05fg	0.54±0.01gh	2.57±0.11g
27	66.09±0.28a	525.15±5.57def	228.09±5.42 ^a	747.93±4.99g	2.81±0.16cde	0.21±0.01de	3.5±0.01d	0.48±0.05h	2.76±0.1fg
28	54.23±0.03bcd	625.11±15.86a	213.71±0.1bc	764.03±5.55fgh	2.4±0.27ef	0.43±0.01b	4.27±0.01b	0.77±0.08c	3.21±0.11bcde
29	48.37±0.02d	528.57±5.88def	186.86±5.18fg	763.48±4.8fgh	1.28±0.01g	0.37±0.05bc	4.38±0.01b	0.62±0.03defg	3.58±0.06ab
30	63.82±0.34a	577.78±5.43b	206.73±5.35cd	784.51±10.44ef	2.17±0.26f	0.58±0.05 ^a	3.6±0.11d	1.06±0.01ab	2.86±0.21efg
31	54.88±0.12bcd	487.06±10.77gh	167.77±5.39i	833.42±0.18ab	3.14±0.01bc	0.22±0.01de	3.03±0.01ef	1.08±0.01a	3.9±0.22 ^a
32	48.54±4.18d	471.79±37.82Mo	178.96±5.37Mo	835.14±11.12ab	2.17±0.01f	0.22±0.01de	3.42±0.06d	0.6±0.05defg	2.93±0.22efg
33	38.05±0.43cd	561.8±10.57d	212±0.02bc	779.1±5.26efg	1.17±0.11a	0.21±0.01de	3.55±0.05d	0.53±0.01gh	3.13±0.05cdef
34	63.79±0.62 ^a	573.13±0.18bc	201.66±0.06cde	758.86±5.43gh	3.77±0.05g	0.42±0.01b	2.76±0.01g	0.96±0.01b	3.56±0.05ab
35	51.89±1.42e	573.5±6.12bc	202.09±5.28cde	808.36±10.24cd	3±0.06cd	0.38±0.06bc	3.5±0.01d	0.71±0.06cd	3.22±0.05bcde
36	53.39±0.82bcd	510.06±11.05fg	200.77±5.5cde	846.47±10.54a	2.6±0.11def	0.27±0.05cde	3.15±0.01e	0.71±0.05cde	2.98±0.06cdef
Altitude 4									
37	44.24±0.07f	502.17±5.4gh	185.01±5.33e	729.47±10.73e	2.7±0.05b	0.21±0.01ef	3.96±0.05fg	0.63±0.01def	2.8±0.05h
38	55.92±0.34bc	577.18±17.24cde	227.68±4.9 ^a	826.03±12.68b	2.59±0.05bc	0.53±0.01ab	4.5±0.05de	0.85±0.01ab	3.12±0.17fg
39	56.92±0.02ab	536.47±11.08fg	193.13±10.85cd	852.97±4.9 ^a	3.27±0.05 ^a	0.43±0.11bc	4.77±0.06ab	0.75±0.01bc	3.33±0.01cde
40	46.39±0.03e	611.37±0.36abc	209.15±5.43abc	761.53±0.45d	2.36±0cd	0.54±0.01ab	5.04±0.11 ^a	0.73±0.08bcd	3.11±0.01fg
41	34.64±0.01g	635.73±10.45a	199.34±5.5cd	727.32±5.82e	1.94±0.01ef	0.59±0.05 ^a	4.74±0.01bc	0.54±0.01fg	3.99±0.11 ^a
42	43.99±0.01f	551.93±16.46df	225.05±10.56 ^a	723.4±5.92e	1.29±0.11h	0.11±0.00f	4.13±0.06f	0.54±0.01fg	3±0.01g
43	44.75±0.26f	570.65±6.1def	191.99±0.44cd	773.3±4.68cd	3.52±0.11 ^a	0.37±0.05cd	3.84±0.01g	0.59±0.05fg	3.2±0.01def
44	55.55±0.08c	566.76±10.58def	203.18±10.65bcd	721.82±5.2e	2.19±0.05de	0.43±0.01bc	4.44±0.05e	0.91±0.05 ^a	3.48±0.05bc
45	50.37±0.23d	629.58±16.24ab	172.19±0.06e	791±5.26c	2.26±0.01d	0.43±0.01bc	3.07±0.05i	0.54±0.11fg	3.66±0b
46	51.07±1.1d	590.91±16.17cd	222.27±5.46ab	786.08±5.3c	2.55±0.16bc	0.43±0.01bc	3.74±0.27g	0.6±0.05efg	3.42±0.05c
47	55.35±0.12c	551.35±5.44df	203.41±0.03bcd	690.53±5.24f	1.61±0.11g	0.16±0.05ef	3.69±0.05g	0.48±0.05f	3.37±0.05cd
48	57.16±0.05 ^a	596.84±16.16cd	198.95±5.39cd	811.92±5.42b	2.37±0.22cd	0.22±0.01ef	3.39±0.05h	0.75±0.01bc	3.17±0.05dfg
49	56.07±0.14bc	495.38±0.29h	194.99±5.21cd	669.29±5.07g	1.84±0.05fg	0.26±0.05de	4.16±0.05f	0.74±0.01bcd	3.21±0.05def

Mean values ± Standard Deviation. (n=3). For each altitude, values in the same column followed by different letters differ at a significance level of 0.05 according to Tukey's test.

Mineral content expressed in mg100 g⁻¹ dry basis.

Table S3. Antioxidant Activity and antioxidant compounds of the studied samples, by their altitude, expressed on dry basis.

Sample	AA ABTS			AA FRAP			TPC			TFC	
Altitude 1											
1	40.47ab	±	0.26	23.12b	±	1.32	1.96abc	±	0.01	1.39	± 0.11
2	39.80ab	±	0.49	13.45f	±	0.19	2.05a	±	0.01	1.28	± 0.05
3	34.80c	±	0.91	14.74ef	±	0.37	1.83de	±	0.06	1.11	± 0.05
4	39.69ab	±	0.54	17.58c	±	1.28	1.87bcde	±	0.03	1.46	± 0.51
5	40.70ab	±	1.21	18.80c	±	0.93	1.76e	±	0.06	1.42	± 0.29
6	39.01ab	±	0.88	23.43b	±	0.15	1.85cde	±	0.01	1.12	± 0.10
7	40.08ab	±	1.74	29.39 ^a	±	0.25	1.98ab	±	0.03	1.48	± 0.09
8	37.48bc	±	1.02	15.52de	±	0.05	1.88bcd	±	0.05	1.11	± 0.02
9	42.66a	±	3.30	16.94cd	±	0.20	2.01a	±	0.05	0.96	± 0.12
Altitude 2											
10	46.20a	±	4.19	16.26de	±	0.13	2.13a	±	0.03	1.25abc	± 0.07
11	42.93ab	±	1.11	16.40de	±	0.14	1.94bcd	±	0.05	0.92d	± 0.10
12	36.53c	±	0.49	13.16fg	±	0.48	1.87cdef	±	0.01	1.25abc	± 0.13
13	34.46c	±	0.06	12.47g	±	0.03	1.78defg	±	0.03	1.04cd	± 0.01
14	42.39ab	±	0.56	24.67a	±	1.66	2.07ab	±	0.04	1.48a	± 0.07
15	42.97ab	±	2.83	18.10cd	±	0.28	1.97abc	±	0.12	1.09bcd	± 0.08
16	43.51ab	±	1.96	21.88b	±	0.32	1.95bc	±	0.02	1.26abc	± 0.06
17	39.04bc	±	1.33	15.49ef	±	0.06	1.76fg	±	0.10	1.32ab	± 0.12
18	36.39c	±	0.72	19.62bc	±	1.46	1.64g	±	0.01	0.91d	± 0.01
19	34.86c	±	0.42	14.74efg	±	0.46	1.91bcdef	±	0.03	1.05cd	± 0.02
20	42.92ab	±	0.95	21.00b	±	0.45	1.77efg	±	0.06	1.27abc	± 0.15
21	37.19c	±	1.09	16.10de	±	1.92	1.93bcde	±	0.09	1.06bcd	± 0.07

Mean values ± Standard Deviation. (n=3). For each altitude, values in the same column followed by different letters differ at a significance level of 0.05 according to Tukey's test. AA ABTS: Antioxidant Activity (μmol Trolox equivalent g⁻¹); AA FRAP: Antioxidant Activity (μmol Trolox equivalent g⁻¹); TPC: Total Phenolic Compounds (mg GAE g⁻¹); TFC: Total Flavonoids Compounds (mg of Catechin equivalent g⁻¹).

Table S3. (Cont.) Antioxidant Activity and antioxidant compounds of the studied samples, by their altitude, expressed on dry basis.

Sample	AA ABTS			AA FRAP			TPC			TFC		
Altitude 3												
22	43.32a	±	0.55	15.96f	±	0.16	1.96a	±	0.06	1.60ab	±	0.15
23	38.71bcd	±	1.50	16.41ef	±	0.71	1.65e	±	0.05	1.07de	±	0.07
24	37.83cd	±	1.98	19.09cde	±	0.47	1.85abcd	±	0.06	1.41abcd	±	0.03
25	38.05cd	±	0.96	16.23ef	±	0.90	1.81abc	±	0.05	1.12de	±	0.04
26	38.74bcd	±	0.98	19.65cd	±	0.67	1.90abc	±	0.02	1.46abc	±	0.14
27	36.64d	±	1.25	15.50f	±	1.97	1.73de	±	0.04	1.25cde	±	0.19
28	38.82bcd	±	0.51	17.41def	±	0.55	1.84abcd	±	0.03	1.04e	±	0.05
29	40.13abcd	±	0.78	16.47ef	±	1.43	1.81bcd	±	0.05	1.10de	±	0.05
30	37.61d	±	0.76	15.13f	±	0.10	1.79cd	±	0.04	1.02e	±	0.11
31	41.35abc	±	0.79	30.15a	±	1.77	1.98a	±	0.03	1.30bcde	±	0.08
32	39.92abcd	±	2.38	20.24cd	±	0.66	1.95ab	±	0.06	1.32bcde	±	0.16
33	39.07bcd	±	1.67	17.53def	±	0.59	1.93abc	±	0.08	1.25cde	±	0.03
34	39.55bcd	±	0.90	24.20b	±	0.61	1.92abc	±	0.04	1.20cde	±	0.15
35	40.22abcd	±	0.50	21.68bc	±	1.29	1.94ab	±	0.05	1.71a	±	0.15
36	42.20ab	±	0.65	15.01f	±	0.32	1.88abc	±	0.04	1.52abc	±	0.12
Altitude 4												
37	42.29a	±	1.32	15.65cde	±	0.22	2.14a	±	0.07	1.15abc	±	0.07
38	39.08abcd	±	1.28	15.38cde	±	1.26	2.03ab	±	0.05	1.38a	±	0.13
39	42.03a	±	0.47	14.12def	±	0.19	1.77de	±	0.05	0.92bc	±	0.04
40	36.70cd	±	0.56	16.21cd	±	0.06	1.68e	±	0.03	1.00bc	±	0.06
41	37.32bcd	±	1.58	14.32def	±	0.28	1.70e	±	0.07	0.85c	±	0.04
42	41.25ab	±	0.92	12.98f	±	0.25	1.89bcde	±	0.17	1.13abc	±	0.08
43	37.10bcd	±	1.93	23.04a	±	1.54	1.82bcde	±	0.01	1.23ab	±	0.01
44	39.02abcd	±	2.07	14.52def	±	0.22	1.78de	±	0.02	1.20ab	±	0.33
45	37.44bcd	±	0.85	14.07ef	±	0.46	1.88bcde	±	0.11	1.36a	±	0.07
46	36.97bcd	±	3.17	19.77b	±	0.03	1.93abcd	±	0.02	1.23ab	±	0.01
47	34.87d	±	0.14	16.19cde	±	0.03	1.77de	±	0.05	1.00bc	±	0.00
48	43.17a	±	0.59	17.33c	±	1.48	1.79cde	±	0.05	0.95bc	±	0.12
49	39.50abc	±	1.62	12.45f	±	0.15	2.00abc	±	0.10	1.21ab	±	0.05

Mean values ± Standard Deviation. (n=3). For each altitude, values in the same column followed by different letters differ at a significance level of 0.05 according to Tukey's test.

AA ABTS: Antioxidant Activity ($\mu\text{mol Trolox equivalent g}^{-1}$); AA FRAP: Antioxidant Activity ($\mu\text{mol Trolox equivalent g}^{-1}$); TPC: Total Phenolic Compounds (mg GAE g^{-1}); TFC: Total Flavonoids Compounds ($\text{mg of Catechin equivalent g}^{-1}$).