

Table S1. Name, Source and Trace Element Content of 28 Buckwheat Samples.

Buckwheat No.	Collection Place	Mg (μg/g)	Ca (μg/g)	Fe (μg/g)	Zn (μg/g)	Mn (μg/g)	Cu (μg/g)	Se (μg/g)	Mo (μg/g)	Cd (μg/g)
	Aba									
<i>F. esculentum</i> 1	Prefecture, Sichuan Province	248.8±24.9	177.49±17.6	62.23±6.2	39.08±3.9	10.08±1	9.98±1.01	1.41±0.14	0.35±0.03	0.03
<i>F. esculentum</i> 2	Xichang City, Sichuan Province	247.25±24.6	304.9±30.4	83.5±8.2	26.24±2.7	10.15±1.1	7.84±0.78	1.46±0.15	0.3±0.03	0.05
<i>F. esculentum</i> 3	Shuiche County, Guizhou Province	249.38±25	120.54±12	67.16±6.6	36.09±3.6	10.29±1	10.4±1.05	0.34±0.03	0.33±0.03	0.03
<i>F. esculentum</i> 4	Weining County, Guizhou Province	249.72±26	144.37±14.5	55.91±5.6	35.21±3.51	10.15±1.1	12.76±1.2	0.72±0.07	0.31±0.03	0.03
<i>F. esculentum</i> 5	Zunyi City, Guizhou Province	248.92±24.5	154.61±15.5	59.03±5.8	39.3±3.9	10.32±1.1	9.61±0.96	0.76±0.07	0.32±0.03	0.03
<i>F. esculentum</i> 6	Xi'an City, Shanxi Province	244.78±24.3	159.85±16	70.99±6.98	30.54±3	9.36±0.9	8.51±0.84	0.9±0.08	0.37±0.04	0.02
<i>F. esculentum</i> 7	Xi'an City, Shanxi Province	246.76±24.4	320.93±32	112.78±11.3	33.14±3.4	9.67±0.96	7.44±0.75	0.75±0.08	0.4±0.04	0.02
<i>F. esculentum</i> 8	Jiujiang City, Jiangxi Province	248.2±25	132.57±13	65.68±6.6	35.84±3.6	10.09±1.08	8.83±0.87	1.30±0.1	0.39±0.04	0.04
<i>F. tataricum</i> 1	Jiujiang City, Jiangxi Province	247.29±24.7	218.41±22	92.02±9.3	11.54±1.54	11.54±1.2	6.48±0.6	0.82±0.08	0.29±0.03	0.02
<i>F.</i>	Xi'an	249.15±2	274.52±2	81.69±8.2	9.53±0.9	9.53±0.9	7.29±0.7	0.77±0.0	.39±0.0	0.0

<i>tataricum</i> 2	City, Shanxi Province Xi'an	5	7.5		6	6	2	08	4	2
<i>F.</i> <i>tataricum</i> 3	City, Shanxi Province Weining	247.81±2	280.24±2	110.17±1	9.84±1.1	9.84±0.9	5.83±0.5	0.68±0.	0.36±0.	0.0
<i>F.</i> <i>tataricum</i> 4	County, Guizhou Province Weining	247.01±2	168.2±17	70.15±6.9	9.68±0.9	9.68±0.9	6.32±0.6	0.41±0.	0.31±0.	0.1
<i>F.</i> <i>tataricum</i> 5	County, Guizhou Province Weining	246.4±24.	144.01±1	56.84±5.8	9.82±0.9	9.82±0.9	6.82±0.6	0.94±0.	0.3±0.0	0.0
<i>F.</i> <i>tataricum</i> 6	County, Guizhou Province Weining	245.94±2	164.62±1	82.83±8.4	9.76±0.9	9.76±0.9	8.49±0.8	0.51±0.	0.35±0.	0.0
<i>F.</i> <i>tataricum</i> 7	County, Guizhou Province Weining	248.62±2	151±15	93.78±9.4	10.4±0.9	10.4±1.0	10.77±1.	0.46±0.	0.34±0.	0.0
<i>F.</i> <i>tataricum</i> 8	County, Guizhou Province Zhaoton	236.02±2	158.9±16	57.51±5.7	9.57±0.9	9.57±0.9	6.65±0.6	0.54±0.	0.32±0.	0.0
<i>F.</i> <i>tataricum</i> 9	g City, Yunnan Province Zhaoton	247.67±2	165.15±1	69.39±6.9	9.69±0.9	9.69±0.9	9.35±0.9	0.67±0.	0.34±0.	0.0
<i>F.</i> <i>tataricum</i> 10	g City, Yunnan Province Xichang	237.79±2	218.11±2	67.83±6.8	9.34±0.9	9.34±0.9	7.29±0.7	0.68±0.	0.32±0.	0.0
<i>F.</i> <i>tataricum</i> 11	City, Sichuan Province Guiyang	246.82±2	210.55±2	75.25±7.5	10.5±1.0	10.5±1.0	6.05±0.7	0.68±0.	0.37±0.	0.0
<i>F.</i> <i>tataricum</i> 12	City, Guizhou Province	237.3±23.	284.41±2	59.03±5.9	10.04±0.	10.04±1.	4.36±0.4	0.52±0.	0.32±0.	0.0
<i>F.</i>	Shuiche	244.51±2	267.85±2	93.4±9.3	10.48±1.	10.48±1.	7.74±0.7	0.65±0.	0.32±0.	0.1

<i>tataricum1</i> 3	ng County, Guizhou Province Zunyi	4.6	6.6		05	05	9	06	03	1
<i>F. tataricum1</i> 4	City, Guizhou Province Xichang	245.77±2	225.32±2	68.72±6.9	10.53±1. 1	10.53±1. 05	8.88±0.9	0.77±0. 07	0.29±0. 03	0.1
<i>F. gracilipes1</i>	City, Sichuan Province Xichang	250.18±2	315.75±3	81.65±8.4	9.04±0.9	9.04±0.9	8.56±0.8 8	0.32±0. 03	0.31±0. 03	0.0 6
<i>F. gracilipes2</i>	City, Sichuan Province Ya'an	248.13±2	288.94±2	82.83±8.3	9.96±0.9 8	9.96±0.9 9	9.46±0.9 7	0.63±0. 06	0.28±0. 03	0.1 1
<i>F. gracilipes3</i>	City, Sichuan Province Xichang	249.57±2	343.98±3	64.13±6.3	10.62±1. 1	10.62±1. 08	7.67±0.7 8	0.28±0. 02	0.29±0. 03	0.0 8
<i>F. densovillosum</i>	City, Sichuan Province Xichang	249.59±2	276.43±2	64.14±6.4	9.78±0.9 7	9.78±0.9 7	8.21±0.8 3	0.97±0. 1	0.31±0. 03	0.1 3
<i>F. dibotrys1</i>	City, Sichuan Province Ya'an	248.53±2	188.63±1	60.25±6	9.64±0.9	9.64±0.9 6	6.67±0.8	0.63±0. 06	0.28±0. 03	0.0 6
<i>F. dibotrys2</i>	City, Sichuan Province	247.04±2	205.54±2	61.93±6.3	9.96±1.0 2	9.96±1.0 2	5.73±0.5 8	1.15±0. 1	0.29±0. 03	0.0 3