

SUPPLEMENTARY

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**INORGANIC ELEMENTS CONTENT IN ALL PARTS OF COMFREY
(*SYMPHYTUM* SPECIES): IS COMFREY A SAFE RAW MATERIAL
FOR MEDICINAL USE?**

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Table S1. The results of analysis of LGC7162 Strawberry Leaves certified reference material.

Element	Accuracy			Precision RSD (%) ^{***}
	Certified values [*] (mg/kg)	Found values [*] (mg/kg)	Recovery (%) ^{**}	
As	0.28	0.23±0.02	82.1	5.0
Ba	107	99±8	92.5	4.7
Ca	1.53 ^d	1.46±0.08	95.4	3.2
Cd	0.17	0.18±0.01	105.9	3.3
Co	0.47	0.42±0.03	89.4	4.1
Cr	2.15	1.94±0.11	90.2	3.3
Cu	10	10.7±0.8	107	4.3
Fe	818	641±43	78.3	3.9
K	1.96 ^{****}	1.85±0.12	94.4	3.7
Mg	0.377 ^{****}	0.362±0.018	96.0	2.9
Mn	171	166±8	97.1	2.8
Ni	2.6	2.8±0.2	107.7	3.6
P	0.260 ^d	0.245±0.016	94.2	3.8
Pb	1.8	1.6±0.1	88.9	3.6
Zn	24	23±1	95.8	2.5

* $c_{sr} \pm u, u = \frac{3 \times s}{\sqrt{n}}$, u-standard uncertainty, n=3, s-standard deviation

** $[1 - (\text{found value} - \text{certified value}) / \text{certified value}] \times 100\%$

*** $RSD = s / c_{sr} \times 100\%$

**** g/100g

Table S2. Selected analytical emission wavelengths and characteristics of the ICP-OES method.

Element	Wavelength λ (nm)	Plasma view mode	*r	**LOD (ng/g)	**LOQ (ng/g)
Al	396.152	Axial	0.999822	52.5	175.85
As	189.042	Axial	0.999707	128.8	429.3
B	249.773	Axial	0.999345	39.85	132.85
Ba	455.403	Axial	0.999142	2.15	7.15
Be	234.861	Axial	0.999770	3.7	13.5
Ca	422.673	Radial	0.999265	1.31265***	4.37545***
Cd	228.802	Axial	0.999414	9.75	32.45
Co	238.892	Axial	0.999346	36.1	120.3
Cr	267.716	Axial	0.999768	34.65	115.5
Cu	324.754	Axial	0.999209	33.25	110.8
Fe	259.940	Axial	0.999603	24	80
Hg	184.950	Axial	0.999988	33.2	110.75
K	766.490	Radial	0.999616	2.7978***	9.326***
Mg	279.553	Radial	0.999890	11.45	38.16
Mn	257.610	Axial	0.999653	5.5	18.25
Na	589.592	Radial	0.999887	0.4602***	1.53395***
Ni	221.647	Axial	0.999379	16.55	55.2
P	213.618	Radial	0.999954	0.15575***	0.15925***
Pb	220.353	Axial	0.999209	82.15	273.9
Se	196.090	Axial	0.999232	86.5	695.5
Si	251.611	Axial	0.999872	65.1	217
V	309.311	Axial	0.999901	17.9	53.7
Zn	213.856	Axial	0.999338	7.3	24.25

*r-correlation coefficient; **LOD-limit of detection; LOQ-limit of quantification; ***μg/g.