

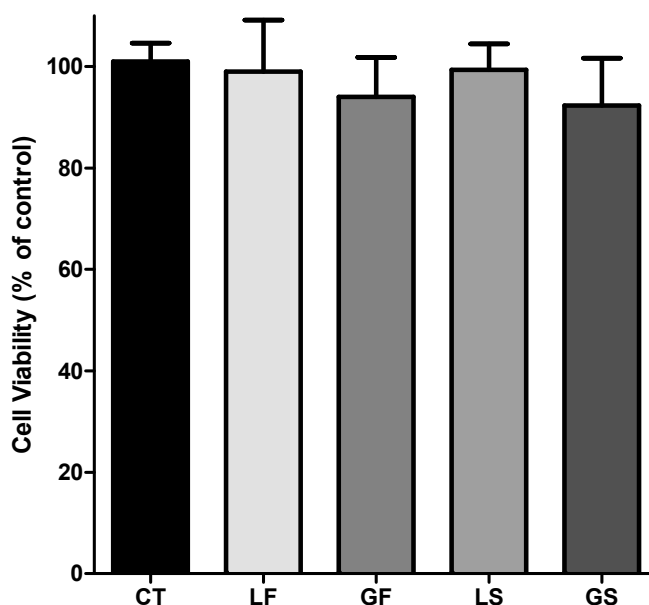


Supplementary material

S1. Complete amino acids results for coffee extracts of freeze-dried and spray-dried process.

Amino Acids (g/100g)	GF	LF	MF	DF	GS	LS	MS	DS
Asparagine	1.48 ± 0.11 <sup>a</sup>	0.63 ± 0.01 <sup>b</sup>	0.59 ± 0.02 <sup>b</sup>	0.36 ± 0.06 <sup>c</sup>	1.48 ± 0.10 <sup>a</sup>	0.43 ± 0.05 <sup>b,c</sup>	0.57 ± 0.04 <sup>b,c</sup>	0.37 ± 0.06 <sup>c</sup>
Serine	0.73 ± 0.04 <sup>a</sup>	0.25 ± 0.01 <sup>b</sup>	0.08 ± 0.01 <sup>c</sup>	0.05 ± 0.01 <sup>c</sup>	0.74 ± 0.01 <sup>a</sup>	0.18 ± 0.02 <sup>d</sup>	0.07 ± 0.00 <sup>c</sup>	0.04 ± 0.00 <sup>c</sup>
Glutamine	3.42 ± 0.23 <sup>a</sup>	2.23 ± 0.01 <sup>b</sup>	2.79 ± 0.10 <sup>a,b</sup>	2.51 ± 0.40 <sup>a,b</sup>	3.41 ± 0.20 <sup>a</sup>	1.49 ± 0.21 <sup>c</sup>	2.79 ± 0.26 <sup>d</sup>	2.63 ± 0.42 <sup>e</sup>
Glycine	0.85 ± 0.05 <sup>a</sup>	0.47 ± 0.01 <sup>b</sup>	0.48 ± 0.01 <sup>b</sup>	0.35 ± 0.06 <sup>b</sup>	0.87 ± 0.03 <sup>a</sup>	0.34 ± 0.04 <sup>b</sup>	0.48 ± 0.06 <sup>b</sup>	0.39 ± 0.04 <sup>b</sup>
Histidine	0.35 ± 0.00 <sup>a</sup>	0.18 ± 0.01 <sup>b</sup>	0.16 ± 0.00 <sup>b</sup>	0.12 ± 0.00 <sup>c</sup>	0.37 ± 0.10 <sup>a</sup>	0.15 ± 0.01 <sup>b,c</sup>	0.15 ± 0.01 <sup>b,c</sup>	0.13 ± 0.01 <sup>c</sup>
Arginine	1.01 ± 0.04 <sup>a</sup>	0.17 ± 0.01 <sup>b</sup>	0.14 ± 0.01 <sup>b</sup>	0.11 ± 0.00 <sup>b</sup>	0.99 ± 0.02 <sup>a</sup>	0.12 ± 0.00 <sup>b</sup>	0.12 ± 0.01 <sup>b</sup>	0.10 ± 0.01 <sup>b</sup>
Threonine	0.53 ± 0.04 <sup>a</sup>	0.23 ± 0.01 <sup>b</sup>	0.14 ± 0.01 <sup>c</sup>	0.06 ± 0.00 <sup>d</sup>	0.52 ± 0.00 <sup>a</sup>	0.17 ± 0.01 <sup>b,c</sup>	0.13 ± 0.01 <sup>c</sup>	0.06 ± 0.00 <sup>d</sup>
Alanine	0.61 ± 0.04 <sup>a</sup>	0.32 ± 0.01 <sup>b</sup>	0.37 ± 0.01 <sup>b</sup>	0.29 ± 0.04 <sup>b</sup>	0.62 ± 0.03 <sup>a</sup>	0.19 ± 0.04 <sup>b,c</sup>	0.23 ± 0.16 <sup>b</sup>	0.30 ± 0.04 <sup>b</sup>
Proline	1.10 ± 0.05 <sup>a</sup>	0.65 ± 0.01 <sup>b</sup>	0.64 ± 0.01 <sup>b</sup>	0.49 ± 0.08 <sup>b</sup>	1.18 ± 0.03 <sup>a</sup>	0.43 ± 0.01 <sup>b,c</sup>	0.59 ± 0.71 <sup>b</sup>	0.50 ± 0.07 <sup>b</sup>
Tyrosine	0.61 ± 0.06 <sup>a</sup>	0.40 ± 0.01 <sup>b</sup>	0.37 ± 0.01 <sup>b</sup>	0.29 ± 0.01 <sup>b,c</sup>	0.65 ± 0.02 <sup>a</sup>	0.29 ± 0.03 <sup>a</sup>	0.35 ± 0.01 <sup>b</sup>	0.29 ± 0.01 <sup>b,c</sup>
Valine	0.76 ± 0.04 <sup>a</sup>	0.33 ± 0.01 <sup>b</sup>	0.41 ± 0.01 <sup>b</sup>	0.32 ± 0.04 <sup>b</sup>	0.78 ± 0.01 <sup>a</sup>	0.24 ± 0.03 <sup>b,c</sup>	0.40 ± 0.04 <sup>b</sup>	0.35 ± 0.05 <sup>b</sup>
Lysine	0.85 ± 0.05 <sup>a</sup>	0.09 ± 0.00 <sup>b</sup>	0.09 ± 0.00 <sup>b</sup>	0.07 ± 0.00 <sup>b</sup>	0.79 ± 0.06 <sup>a</sup>	0.08 ± 0.00 <sup>b</sup>	0.08 ± 0.00 <sup>b</sup>	0.07 ± 0.00 <sup>b</sup>
Isoleucine	0.55 ± 0.03 <sup>a</sup>	0.28 ± 0.01 <sup>b</sup>	0.32 ± 0.01 <sup>b</sup>	0.24 ± 0.03 <sup>b</sup>	0.57 ± 0.01 <sup>a</sup>	0.21 ± 0.02 <sup>b,c</sup>	0.32 ± 0.04 <sup>b</sup>	0.26 ± 0.03 <sup>b</sup>
Leucine	1.24 ± 0.07 <sup>a</sup>	0.61 ± 0.01 <sup>b</sup>	0.75 ± 0.01 <sup>b</sup>	0.57 ± 0.08 <sup>b</sup>	1.28 ± 0.03 <sup>a</sup>	0.44 ± 0.06 <sup>b,c</sup>	0.76 ± 0.11 <sup>b</sup>	0.62 ± 0.08 <sup>b</sup>
Phenylalanine	0.82 ± 0.04 <sup>a</sup>	0.39 ± 0.01 <sup>b</sup>	0.42 ± 0.01 <sup>b</sup>	0.30 ± 0.03 <sup>b</sup>	0.89 ± 0.02 <sup>a</sup>	0.31 ± 0.44 <sup>b</sup>	0.42 ± 0.05 <sup>b</sup>	0.34 ± 0.03 <sup>b</sup>

\* Different letters in the same attribute mean that samples are different and same letters indicate the samples are the same.



S2. Percentage inhibition in comparison with control of viability of murine fibroblast cell line (3T3 cells) by MTT method, after 24 hours of treatment with freeze-dried (A) and spray-dried (B) aqueous coffee extracts at concentrations of 2500 to 5000 µg/mL. Abbreviations: GF – green freeze-dried, LF – light roasted freeze-dried, GS – green spray-dried, LS – light roasted spray-dried.