

SUPPLEMENTARY MATERIALS

Supplementary Table S1. Analytical eco-scale of the DES-RP-DLLME-HPLC method for tryptophan in oils

Reagents			
Amount	n-hexane <10 mL (g)		8
	DES amount <10 mL (g)		1
Hazard (physical, environmental, health)	none		0
Instruments			
Energy	HPLC instrument < 1.5 kWh per sample		1
	Vortex, Ultrasonic bath, Centrifuge, and		1
	Water bath < 1.5 kWh per sample		
Occupational hazard	Analytical process		0
Waste	1–10 mL (g)		3
Total penalty points			14
Eco-scale score			86

Supplementary Table S2. GAPI of the DES-RP-DLLME-HPLC method for tryptophan in oils

1. Collection:	off-line ▼
2. Preservation:	None ▼
3. Transport:	None ▼
4. Storage:	Under normal conditio ▼
5. Type of method:	Simple procedures ▼
6. Scale of extraction:	Micro-extraction ▼
7. Solvents/reagents used:	Green solvents/reagent ▼
8. Additional treatments:	Simple treatments ▼
Reagents and solvents	
9. Amount:	< 10 mL (< 10 g) ▼
10. Health hazard:	Slightly toxic, slight irri ▼
11. Safety hazard:	Highest NFPA flammal ▼
instrumentation	
12. Energy:	<= 1.5 kWh per sample ▼
13. Occupational hazard:	Hermetic sealing of the ▼
14. Waste:	1-10 mL (1-10 g) ▼
15. Waste treatment:	No treatment ▼
Method type	
Type of analysis:	Qualitative and quantit ▼

Supplementary Table S3. The content of tryptophan in nut vegetables from the following stores: A. JEZGRO (address: Ruzveltova 24, Belgrade); B. BIO ŠPAJZ (address: Bulevar Kralja Aleksandra 297, Belgrade); C. ZDRAVAC (address: Čumićevo sokače, Lokal 45, Belgrade); D. BIO MARKET (address: Svetogorska 18, Belgrade); E. DREN (address: Bulevar Despota Stefana 90, Belgrade); F. BIO SHOP (address: Braće Jerković 116, Belgrade); G. (address: EFEDRA, Prvomajska 8k, Zemun).

1. Almond

Samples	Replicates			Store	Mean _i	SD _i
	1	2	3			
1	15.8	16.9	14.9	A	15.9	1.04
2	16.7	16.6	17.1	B	16.8	0.30
3	14.5	16.7	15.2	C	15.5	1.08
4	14.9	14.8	16.3	E	15.3	0.85
5	15.8	15.1	17.1	F	16.0	0.98
					Mean	%MAXrange
					15.9	16.4

2. Brazilian nut

Samples	Replicates			Store	Mean _i	SD _i
	1	2	3			
1	14.3	12.8	14.5	A	13.8	0.92
2	15.3	14.2	13.5	C	14.3	0.90
3	14.3	14.9	13.9	D	14.4	0.50
4	12.9	14.8	13.5	E	13.7	0.99
5	15.0	13.8	13.5	G	14.1	0.78
					Mean	%MAXrange
					14.1	18.1

3. Cashew

Samples	Replicates			Store	Mean _i	SD _i
	1	2	3			
1	10.6	11.3	11.5	B	11.2	0.48
2	10.1	10.2	10.9	D	10.4	0.42
3	10.8	10.1	11.8	E	10.9	0.82
4	10.1	11.5	10.4	F	10.6	0.72
5	11.3	10.6	11.4	G	11.1	0.42
					Mean	%MAXrange
					10.8	15.3

4. Hazelnut

Samples	Replicates			Store	Mean _i	SD _i
	1	2	3			
1	16.3	17.0	16.6	A	16.6	0.35
2	17.6	18.4	17.2	B	17.7	0.63
3	18.2	16.0	16.7	C	17.0	1.13
4	18.4	17.6	16.5	F	17.5	0.97
5	18.1	17.9	17.4	G	17.8	0.35
					Mean	%MAXrange
					17.3	13.9

5. Peanuts

Samples	Replicates			Store	Mean _i	SD _i
	1	2	3			
1	17.5	19.0	18.8	B	18.4	0.84

2	17.4	17.8	18.6	C	18.0	0.62
3	17.7	16.7	16.8	E	17.1	0.56
4	17.3	16.8	16.9	F	17.0	0.26
5	17.8	19.1	16.8	G	17.9	1.12
					Mean	%MAXrange
					17.7	13.1

6. Pumpkin seeds

Samples	Replicates			Store	Mean _i	SD _i
	1	2	3			
1	35.0	29.3	34.4	A	32.9	3.13
2	30.7	28.1	36.4	B	31.7	4.22
3	33.3	28.5	30.7	D	30.8	2.40
4	35.7	32.5	28.4	E	32.2	3.64
5	29.2	32.3	35.3	F	32.3	3.06
					Mean	%MAXrange
					32.0	25.8

7. Sesame seeds

Samples	Replicates			Store	Mean _i	SD _i
	1	2	3			
1	35.8	35.3	31.5	B	34.2	2.33
2	30.7	31.8	36.8	C	33.1	3.25
3	31.6	36.9	35.3	D	34.6	2.72
4	31.9	29.2	28.1	F	29.7	1.97
5	35.3	33.0	31.4	G	33.2	1.99
					Mean	%MAXrange
					33.0	26.7

8. Sunflower seeds

Samples	Replicates			Store	Mean _i	SD _i
	1	2	3			
1	40.7	34.3	35.0	A	36.7	3.51
2	35.4	40.7	37.3	B	37.8	2.68
3	39.7	36.9	41.2	C	39.3	2.17
4	34.9	37.1	36.3	D	36.1	1.12
5	36.6	36.7	42.2	G	38.5	3.19
					Mean	%MAXrange
					37.7	20.9

9. Walnut

Samples	Replicates			Store	Mean _i	SD _i
	1	2	3			
1	10.8	11.5	11.5	A	11.3	0.40
2	12.5	11.8	12.0	C	12.1	0.37
3	12.2	11.2	12.4	E	11.9	0.68
4	12.4	12.3	12.2	F	12.3	0.14
5	12.0	12.2	12.0	G	12.0	0.13
					Mean	%MAXrange
					11.9	14.3

Mean_i – The mean value for triplicates;

SD_i – The standard deviation for triplicates;

%MAXrange – Range between the minimum and maximum individual results.