

Supplementary data for the article:

Mitic-Culafic, D.; Nikolic, B.; Simin, N.; Jasnic, N.; Cetojevic-Simin, D.; Krstic, M.; Knezevic-Vukcevic, J. Effect of *Allium Flavum* L. and *Allium Melanatherum* Pan. Extracts on Oxidative DNA Damage and Antioxidative Enzymes Superoxide Dismutase and Catalase. *Plant Food Hum. Nutr.* **2016**, *71* (1), 28–34. <https://doi.org/10.1007/s11130-015-0519-0>

Supplementary Table 1 Concentrations of selected phenolics in *A. flavum* and *A. melanatherum* extracts determined by LC-MS/MS

Location	Content of selected phenolics in the extracts ($\mu\text{g g}^{-1}$ of dw) ^a			
	<i>A. flavum</i> ^b		<i>A. melanatherum</i>	
	Aerial parts	Bulb	Aerial parts	Bulb
Plant part				
Extraction yield (%)^c	7.0	19.7	7.0	24.0
Phenolic acids				
<i>p</i> -Hydroxybenzoic acid	115.0 ± 3.8	13.1 ± 0.4	129.0 ± 4.3	<LoQ ^d
2,5-Dihydroxybenzoic acid	<LoQ	2.3 ± 0.1	<LoQ	<LoQ
Protocatechuic acid	447.0 ± 20.7	4.5 ± 0.2	384.0 ± 17.8	<LoQ
Vanillic acid	426.0 ± 15.7	20.1 ± 0.7	180.0 ± 6.6	<LoQ
Gallic acid	8.0 ± 0.2	<LoQ	<LoQ	<LoQ
Syringic acid	174.0 ± 8.4	38.1 ± 1.8	138.0 ± 6.7	20.6 ± 1.0
Cinnamic acid	<LoQ	<LoQ	25.4 ± 1.3	<LoQ
<i>p</i> -Coumaric acid	134.0 ± 4.4	5.3 ± 0.2	942.0 ± 31.0	67.8 ± 2.2
Caffeic acid	220.0 ± 6.6	68.8 ± 2.0	565.0 ± 16.8	32.0 ± 1.0
Ferulic acid	769.0 ± 32.5	30.5 ± 1.3	1488.0 ± 62.9	70.8 ± 3.0
Sinapic acid	30.3 ± 1.6	3.3 ± 0.2	<LoQ	<LoQ
5- <i>O</i> -Caffeoylquinic acid	1.2 ± 0.1	4.8 ± 0.2	10.6 ± 0.4	<LoQ
Total phenolic acids ($\mu\text{g g}^{-1}$)^e	2324.5	190.8	3862.0	191.2
Flavonoids				
Vitexin	2.4 ± 0.1	<LoQ	<LoQ	<LoQ
Isorhamnetin	661.0 ± 16.1	<LoQ	<LoQ	<LoQ
Kaempferol	48.8 ± 1.0	<LoQ	56.1 ± 1.2	<LoQ
Kaempferol-3- <i>O</i> -glucoside	1419.0 ± 24.6	0.7 ± 0.0	1408.0 ± 24.4	<LoQ
Chrysoeriol	25.4 ± 0.5	1.3 ± 0.0	<LoQ	<LoQ
Luteolin	1.9 ± 0.1	5.0 ± 0.2	4.1 ± 0.2	<LoQ
Luteolin-7- <i>O</i> -glucoside	1.3 ± 0.0	14.7 ± 0.2	<LoQ	<LoQ
Quercetin	191.0 ± 6.9	<LoQ	67.7 ± 2.4	<LoQ
Hyperoside	<LoQ	<LoQ	54.3 ± 0.9	<LoQ
Quercetin-3- <i>O</i> -glucoside	32352.0 ± 1122.0	3.1 ± 0.1	1079.0 ± 37.4	<LoQ
Rutin	80958.0 ± 1829.0	4.5 ± 0.1	126990.0 ± 2870.0	<LoQ
Total flavonoids ($\mu\text{g g}^{-1}$)^f	115660.8	29.3	129659.2	0.0
Other phenolics				
Aesculetin	36.5 ± 0.7	20.8 ± 0.4	162.0 ± 3.3	11.4 ± 0.2
Secoisolariciresinol	16.8 ± 0.8	27.3 ± 1.2	<LoQ	<LoQ
Quinic acid	551.0 ± 20.0	1050.0 ± 38.1	685.0 ± 24.9	1180.0 ± 42.8
Total phenolics (mg g^{-1})^g	119.0	0.3	134.0	1.4

^a Results are given as the concentration ($\mu\text{g g}^{-1}$ of extract dry weight) ± standard error of repeatability (as determined by method validation), ^b Results for extract *A. flavum* are from [11], ^c Extraction yield (%) = m (dry extract) / m (dry plant material) × 100, ^d <LoQ – not detected or lower of quantification limit, ^e Sum of the contents of all detected phenolic acids, ^f Sum of the contents of all detected flavonoids, ^g Sum of the contents of all detected phenolic compounds