

Supporting information

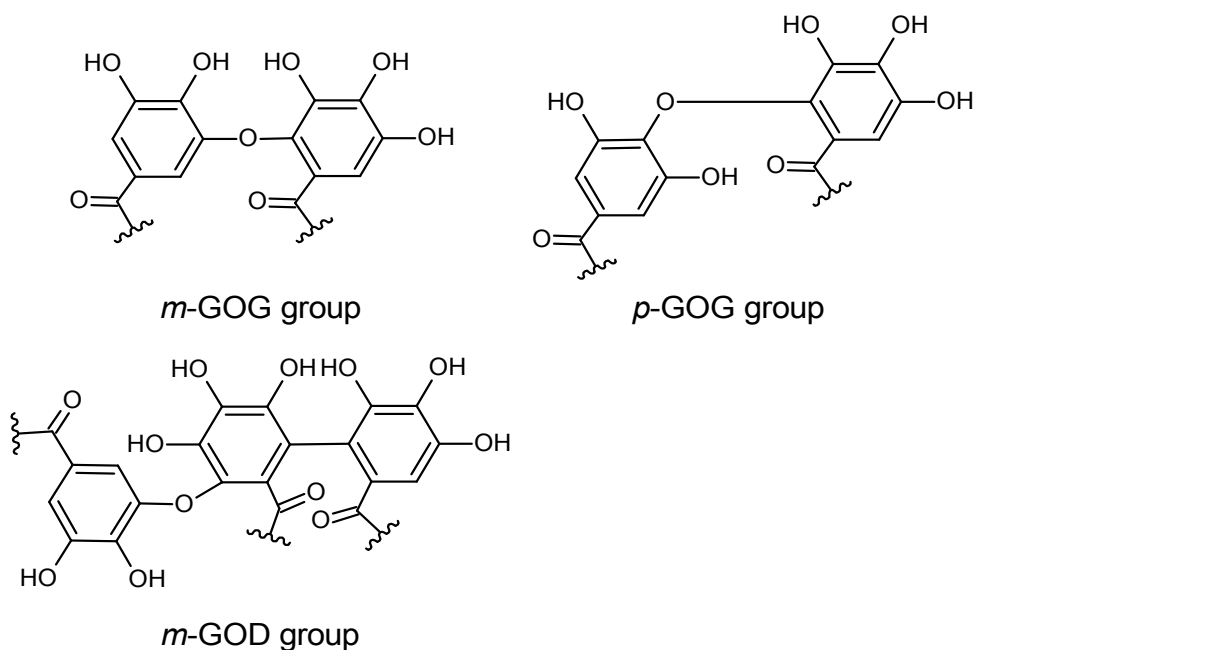


Figure S1. Structure of dehydrodigalloyl group (GOG) and galloyl-O-digalloyl (GOD) bonds present in oligomeric ellagitannins.

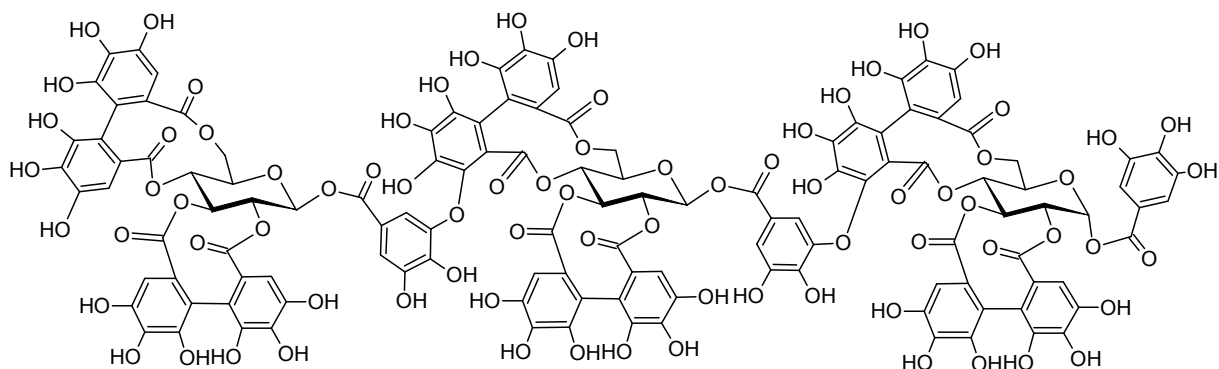


Figure S2. Structure of lambertianin C.

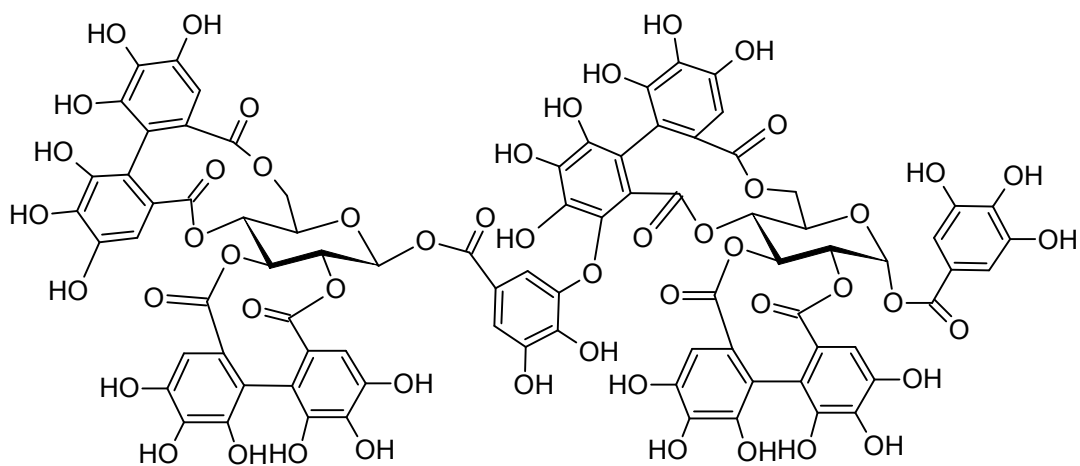


Figure S3. Structure of sanguin H-6.

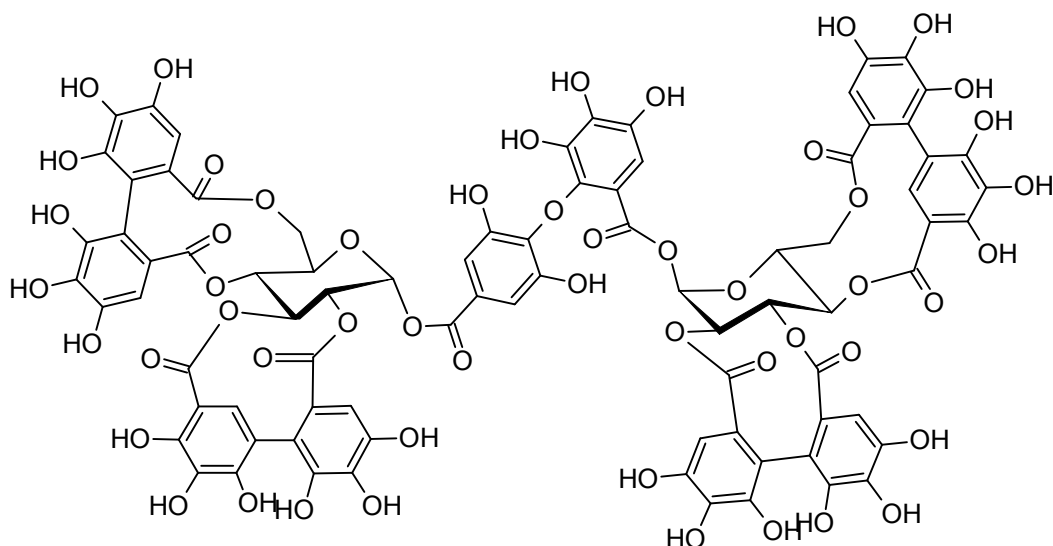


Figure S4. Structure of agrimoniin.

Table S1. Analytical parameters used for quantitative analysis.

substance	linear range	slope (a)	offset (b)	R ²	LOD	LOQ
	mg/L				mg/L	mg/L
lambertianin C	5–395	15.95	6.08	0.999	1.25	3.79
sanguiin H-6	5–225	20.76	-5.80	0.999	0.80	2.41
agrimoniin	5 – 249	18.19	-4.58	0.999	1.29	3.90
ellagic acid	1–48	56.07	-10.49	0.999	0.20	0.60

Table S2. The parameters characterizing the hydrolysis of the researched ellagitannins in different environments.

Ellagitannin	$\tau_{1/2}$ (h)			Loss of initial ellagitannin after hydrolysis (%)			Share of EA in loss of initial amount of ellagitannin after hydrolysis (%)			An amount of individual identified products		
	pH 0.9, temp. 95°C, 6 h	pH 3, temp. 95°C, 6 h	pH 7, temp. 37°C, 3 h	pH 0.9, temp. 95°C, 6 h	pH 3, temp. 95°C, 6 h	pH 7, temp. 37°C, 3 h	pH 0.9, temp. 95°C, 6 h	pH 3, temp. 95°C, 6 h	pH 7, temp. 37°C, 3 h	pH 0.9, temp. 95°C, 6 h	pH 3, temp. 95°C, 6 h	pH 7, temp. 37°C, 3 h
Lambertianin C	1.9 ^{ab} ± 0.3	6.2 ^b ± 0.5	1.1 ^a ± 0.1	95.0 ^a ± 1.8	49.1 ^b ± 2.1	80.4 ^{ab} ± 7.2	26.6 ^c ± 2.4	1.9 ^{ab} ± 0.1	4.7 ^b ± 0.2	25	17	12
Sanguiin H-6	2.2 ^b ± 0.3	8.0 ^c ± 0.4	2.7 ^c ± 0.2	85.0 ^b ± 2.4	36.9 ^a ± 1.4	85.5 ^{ab} ± 5.1	11.3 ^a ± 0.8	0.7 ^a ± 0.1	3.0 ^a ± 0.1	17	10	11
Agrimoniin	1.3 ^a ± 0.1	3.6 ^a ± 0.2	1.8 ^b ± 0.2	95.0 ^a ± 3.7	65.0 ^c ± 3.9	67.4 ^a ± 2.7	17.9 ^b ± 1.1	1.7 ^{ab} ± 0.2	7.6 ^c ± 0.5	21	9	11

Values in the column marked with the same letter do not differ statistically significantly at the level of $p \leq 0,05$; $\tau_{1/2}$ – half-life; the value $\tau_{1/2}$ was calculated on the basis of the graphs depicting the loss of the researched ellagitannins during their hydrolysis reaction.