

Protection of Erythrocytes and Microvascular Endothelial Cells against Oxidative Damage by *Fragaria vesca* L. and *Rubus idaeus* L. Leaves Extracts — The Mechanism of Action

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Supplementary Materials

Table S1. The content [mg/g] and characterization of phenolic compounds of the *Rubus L.* leaf preparation of using their spectral characteristic in UPLC-DAD (retention time, λ_{\max}) and negative ions in UPLC-ESI-MS.

Compounds	Content [mg/g]	R _t (min)	λ_{\max} (nm)	[MS-]	[MS-MS-]
1. Neochlorogenic acid	5.05	2.34	323	353.0866	235.9249/191.0553/146.9378
2. Ellagitannins Lambertianin C	267.98	5.12	240	1401.3730	633.075
3. Ellagitannins hex (casuarinin)	592.55	5.59	240	935.0760	633.075/ 300.9999
4. Quercetin-3-O-rutinoside	8.78	6.37	352	609.1080	301.0350
5. Ellagic acid	3.00	6.60	364	301.000	
6. Quercetin-3-O-rutinoside	2.25	6.98	354	609.1427	463.0397/301.0277/151.0034
7. Quercetin-3-O-galactoside	2.20	7.14	353	463.0843	301.0277/151.0034
8. Quercetin -3-O-glucuronide	15.12	7.27	351	477.0670	301.0277/151.0034
9. Quercetin-3-O-glucoside	6.60	7.37	352	463.0843	301.0277/151.0034
10. Kaempferol-3-O-rutinoside	9.19	7.48	350	593.1559	447.0968/285.0187
11. Luteolino-3-O-glucoronide	2.74	7.54	340	461.0710	285.0187
12. Kaempferol-3-O-glucoside	1.68	8.05	346	447.0916	285.0313/229.0230
13. Kaempferol-3-O-glucoside-rhamnoside-7-O-rhamnoside	1.34	8.28	346	739.1930	593.1559
14. Kaempferol-3-O-glucoside-7-O-rhamnoside	1.47	8.38	346	593.1559	431.0968/285.0187
15. Kaempferol -3-O-glucuronide	2.24	8.51	346	461.0710	285.0187
16. Quercetin-3-O-6-acetylglucoside	1.36	8.85	350	505.0980	447.0397/301.0277/151.0034
17. Apigenin-3-O-glucoronide	7.88	8.95	338	445.0710	269.0450
Total	931.43				

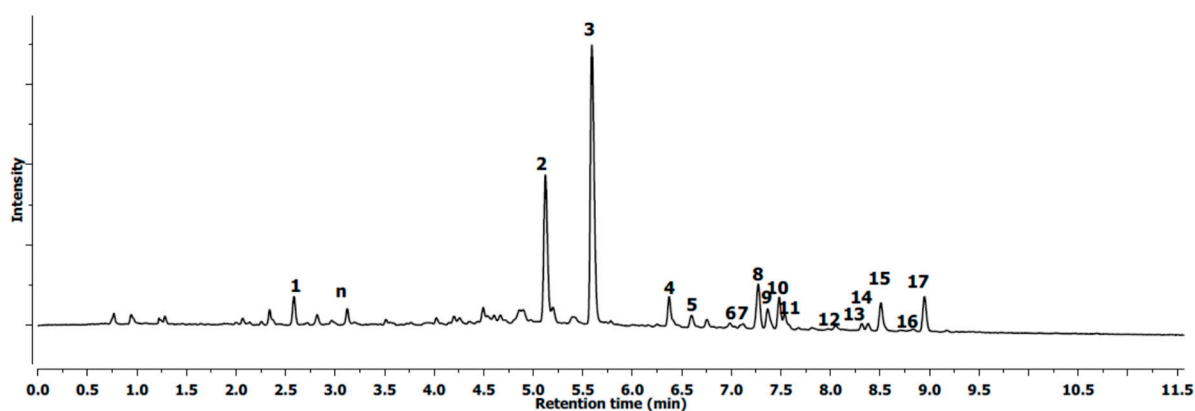


Figure S1. UPLC-UV max plot chromatograms of phenolic compounds of the *Rubus L.* leaf preparation (refer to Table 1 for the identification of time retention peaks).

Table S2. The content [mg/g] and characterization of phenolic compounds of the *Fragaria vesca L.* preparation of using their spectral characteristic in UPLC-DAD (retention time, λ_{\max}) and negative ions in UPLC-ESI-MS.

Compounds	Content [mg/g]	R _t (min)	λ_{\max} (nm)	[MS-]	[MS-MS-]
1.Chlorogenic acid	1.22	4.69	323	353.0866	235.9249/191.0553/146.9378
2. Quercetin-3-O-glucoside- glucuronide	3.44	5.69	352	639.1190	
3.p-Coumaroylquinc acid	0.41	6.05	312	337.0560	
4. Quercetin-3-O-rutinoside	26.62	6.32	352	609.1080	447.0916/301.0277/151.0034
5.Ellagic acid	2.21	6.54	364	301.000	
6.Kaempferol-3-O-glucoside- glucuronide	2.32	6.60	354	623.123	447.0968/285.0313/229.0230
7. Ellagitannins hex (casuarinin)	483.33	6.85	245	934.0707	783.069/633.075/ 300.9999
8. Quercetin -3-O-glucuronide	5.37	7.21	351	477.0670	301.0277/151.0034
9.Kaempferol 3-O-rhamnoside-7-O-galacturonide	18.03	7.30	345	607,1290	285.0313
10.Kaempferol-3-O-rutinoside	37.92	7.42	350	593.1559	447.0968/285.0187
11.Kaempferol -3-O-glucuronide	0.27	8.44	346	461.0710	285.0187
12.Isorhamnetin-3-O-rhamnoside	0.74	8.63	370	461.0720	315.0140
Total	581.88				

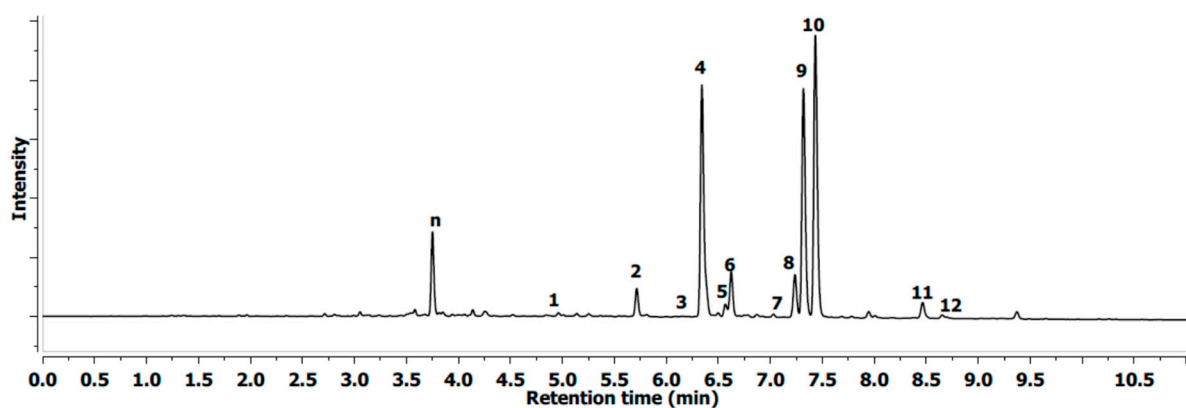


Figure S2. UPLC-UV 360 nm chromatogram of phenolic compounds of the *Fragaria vesca L.* leaf preparation (refer to Table 1 for the identification of time retention peaks).