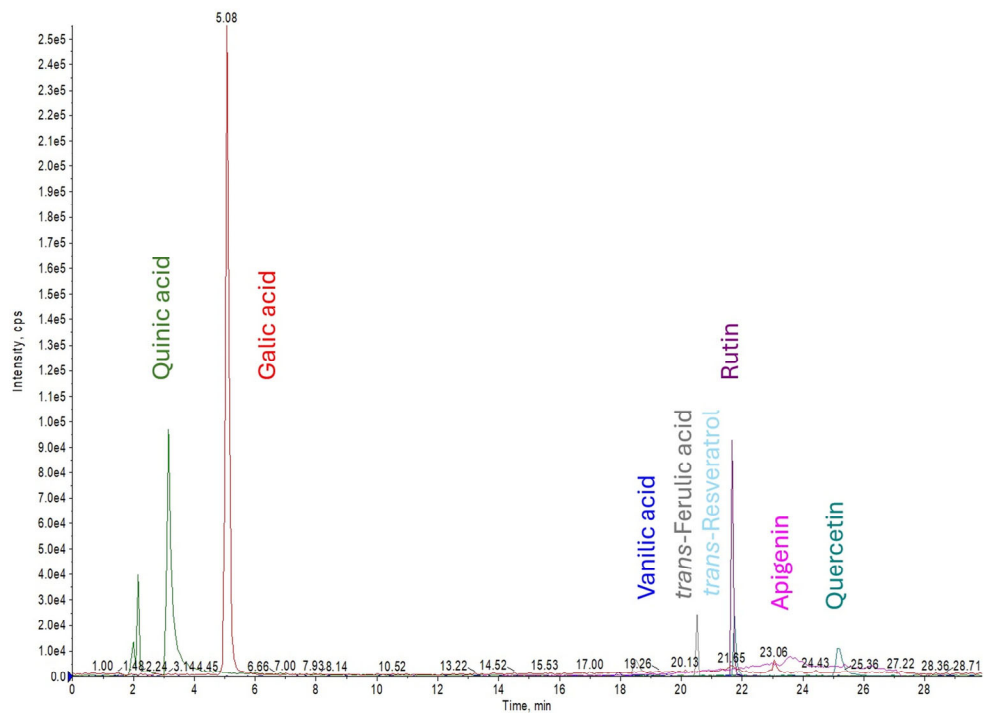


## Supplementary Materials

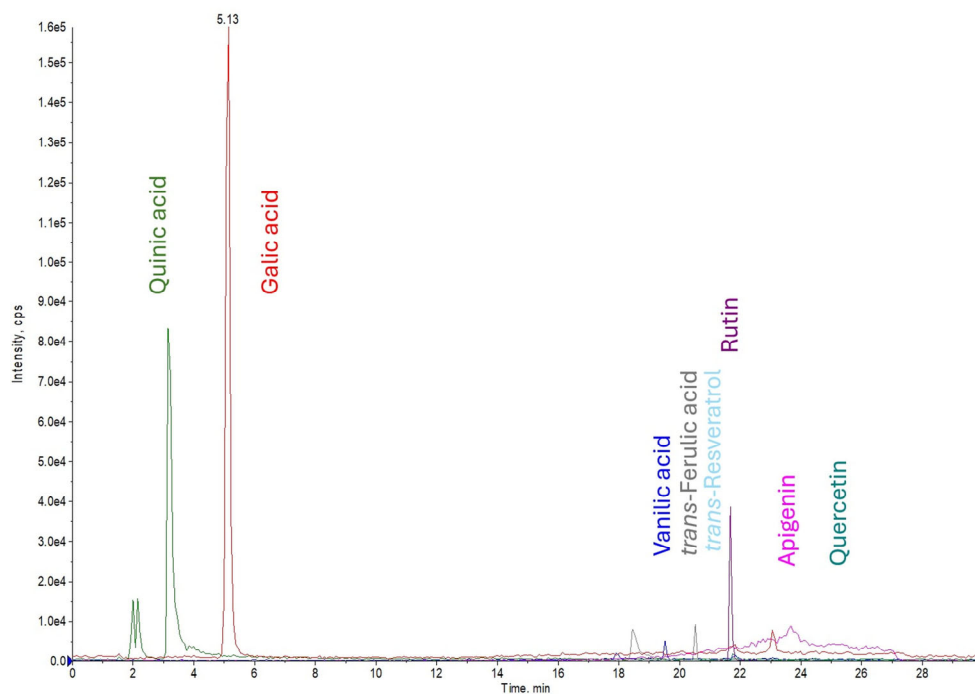
**Table S1.** The MS/MS transitions and compounds' characteristic parameters for quantified compounds.

Compound	Precursor ion m/z	Main product ions MS <sup>2</sup> m/z	Ionization mode	DP, V	EP, V	CE, V	CXP, V
Quinic acid-1	190.9	84.9	ESI -	-75	-10	-28	-7
Quinic acid-2	190.9	93.0	ESI -	-75	-10	-30	-5
Gallic acid-1	168.9	124.8	ESI -	-40	-10	-20	-7
Gallic acid-2	168.9	78.9	ESI -	-40	-10	-28	-7
Rutin-1	608.9	299.9	ESI -	-150	-10	-50	-9
Rutin-2	608.9	270.9	ESI -	-150	-10	-82	-9
Quercetin-1	300.9	151.0	ESI -	-90	-10	-30	-7
Quercetin-2	300.9	179.0	ESI -	-90	-10	-26	-7
Vanillic acid-1	166.9	107.9	ESI -	-5	-10	-26	-9
Vanillic acid-2	166.9	123.0	ESI -	-5	-10	-16	-7
<i>trans</i> -Ferulic acid-1	192.9	133.9	ESI -	-60	-10	-24	-7
<i>trans</i> -Ferulic acid-2	192.9	178.0	ESI -	-60	-10	-18	-7
Apigenin-1	268.9	117.0	ESI -	-90	-10	-52	-9
Apigenin-2	268.9	150.9	ESI -	-90	-10	-34	-7
<i>trans</i> -Resveratrol 1	226.9	185.0	ESI -	-75	-10	-26	-5
<i>trans</i> -Resveratrol 2	226.9	143.0	ESI -	-75	-10	-36	-7
(+)-Catechin	290.9	139.0	ESI +	81	10	23	10
(+)-Catechin	290.9	123.0	ESI +	81	10	47	10
(-)-Epicatechin 3-gallate-1	306.9	288.8	ESI +	71	10	21	10
(-)-Epicatechin 3-gallate-2	306.9	163.0	ESI +	71	10	11	12

Collision energy (CE), declustering potential (DP), entrance potential (EP), and collision cell exit potential (CXP).



**Figure S1.** Extracted ion chromatograms (XIC) obtained for selected compounds in SurfE in negative ionization mode.



**Figure S2.** Extracted ion chromatograms (XIC) obtained for selected compounds in SolvE in negative ionization mode.