Supplementary Materials

Article

Chemical Profile and Bioactivity of *Rubus idaeus* L. Fruits Grown in Conventional and Aeroponic Systems

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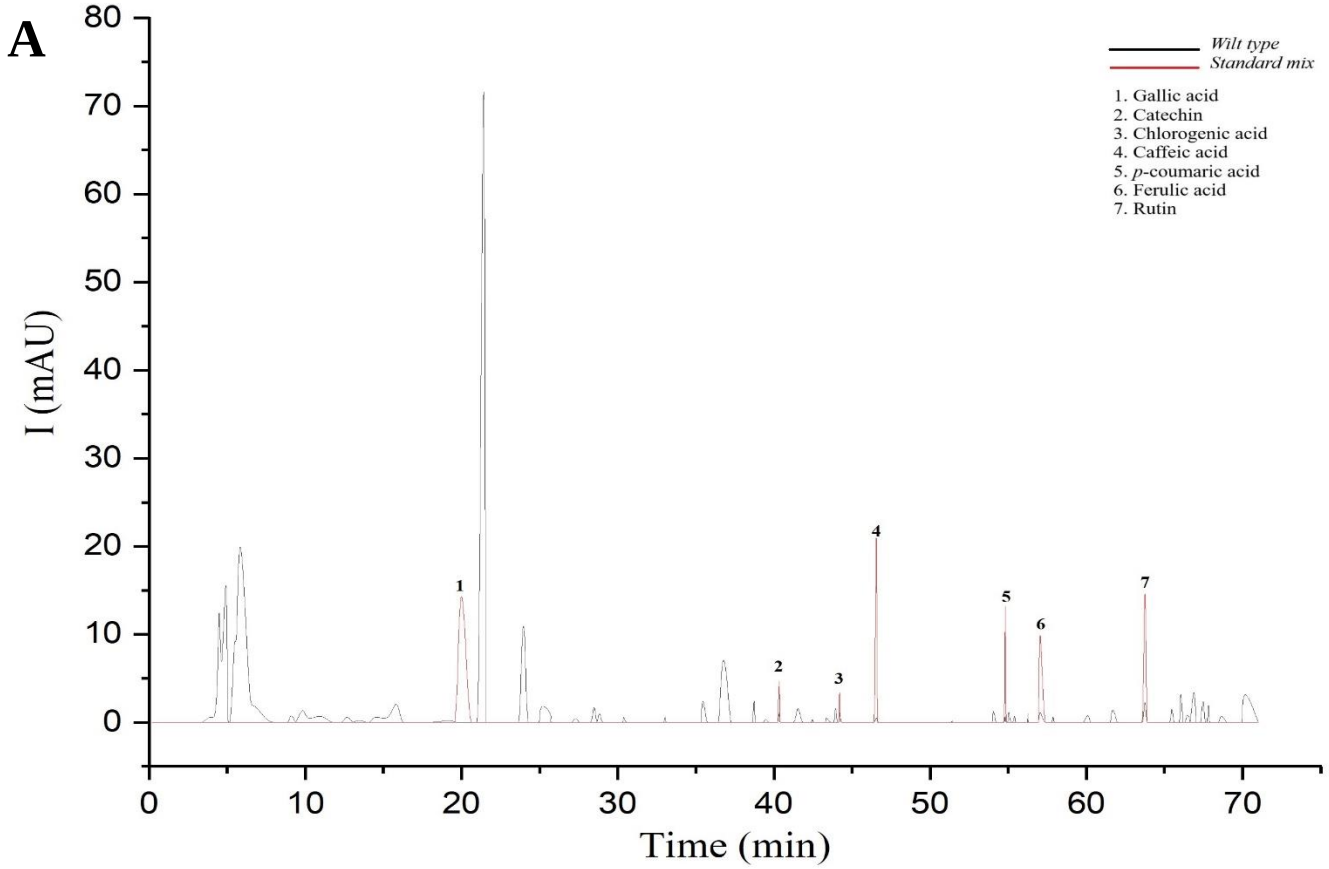
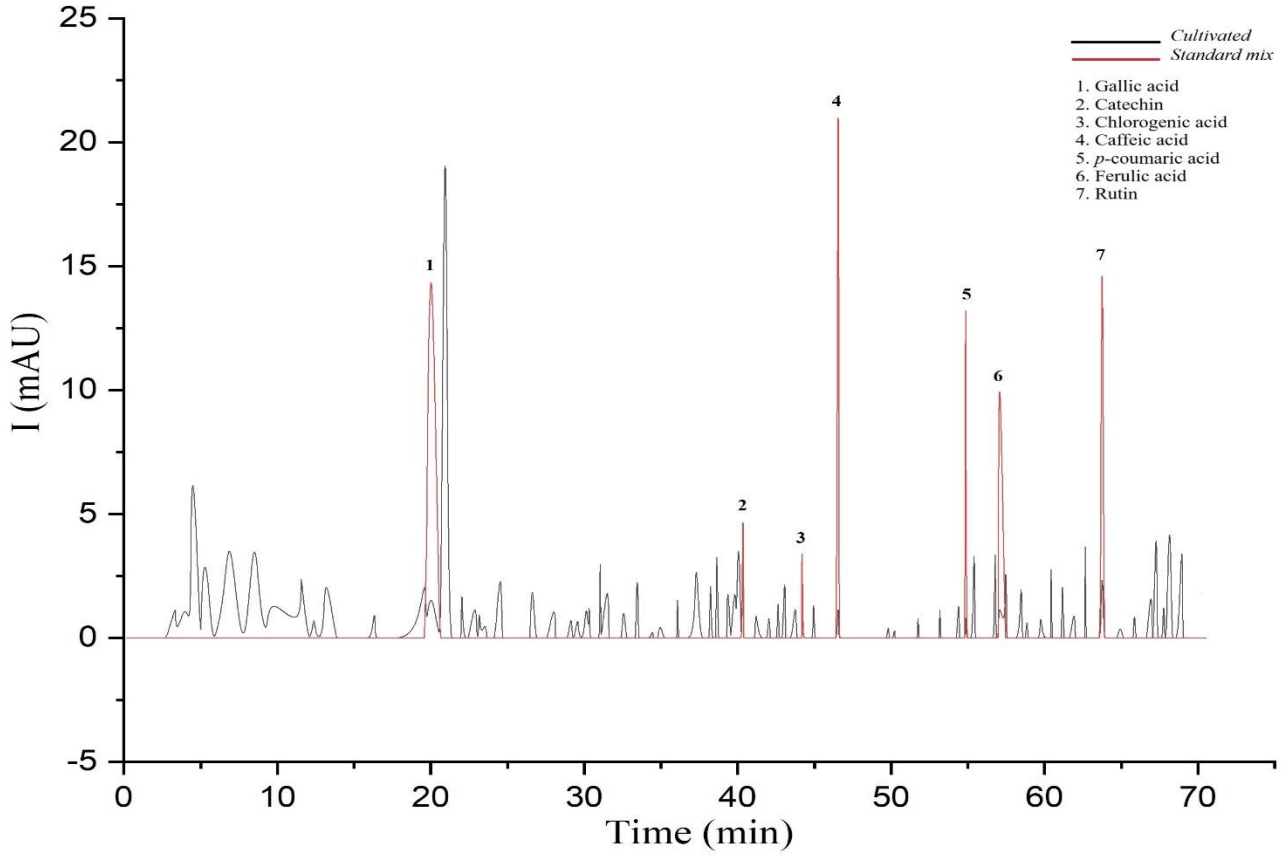

A
Wilt type
Standard mix
1. Gallic acid
2. Catechin
3. Chlorogenic acid
4. Caffeic acid
5. p-coumaric acid
6. Ferulic acid
7. Rutin
I (mAU)
Time (min)
0
10
20
30
40
50
60
70
80

B


Cultivated
Standard mix
1. Gallic acid
2. Catechin
3. Chlorogenic acid
4. Caffeic acid
5. p-coumaric acid
6. Ferulic acid
7. Rutin
I (mAU)
Time (min)
25
20
15
10
5
0
-5
0
10
20
30
40
50
60
70
1
2
3
4
5
6
7

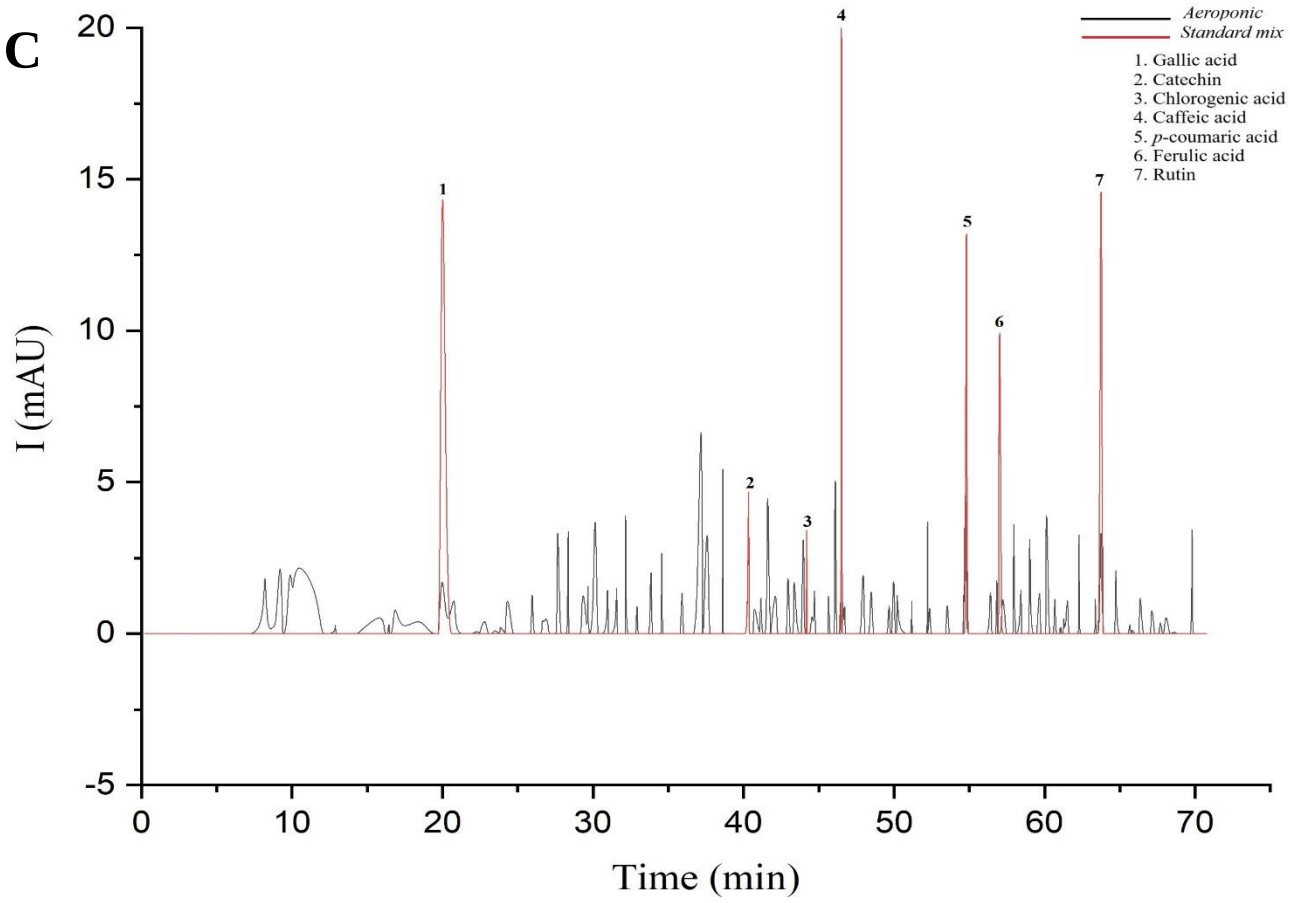


Figure S1. Chromatograms of raspberry extracts in ethanol. A: wild type, B: cultivated, C: aeroponic. All chromatograms were reported at a wavelength of 280 nm and overlapped with a standard mixture. Phenolics were qualified and quantified at different wavelengths, with respect to their maximum absorbance wavelengths. 1. gallic acid at 270 nm; 2. caffeic acid at 273 nm; 3. catechin at 280 nm; 4. *p*-coumaric acid at 310 nm; 5. ferulic acid at 325 nm; 6. chlorogenic acid at 327 nm, 7. rutin at 360 nm.

	Calibration range: 0.001 - 1 mg/mL
Standard	**Calibration curve**
Caffeic acid	$y=1.854473e^{-5} + 35.77557$; $R^2= 0.982$
Chlorogenic acid	$y=3.601749e^{-5} + 65.25935$; $R^2= 0.993$
Ferulic acid	$y=2.2515792e^{-5} + 36.49947$; $R^2= 0.990$
Gallic acid	$y=3.316615e^{-5} + 56.08516$; $R^2= 0.999$
p-Coumaric acid Catechin	$y=1.239896e^{-5} + 32.64989$; $R^2= 0.993$
Quercetin-3-O-rutinoside	$y=1.162342e^{-4} + 37.63891$; $R^2= 0.984$
	$y=8.602372e^{-5} + 65.9654$; $R^2= 0.999$

Figure S2. Calibration curve of phenolics used as external standards.