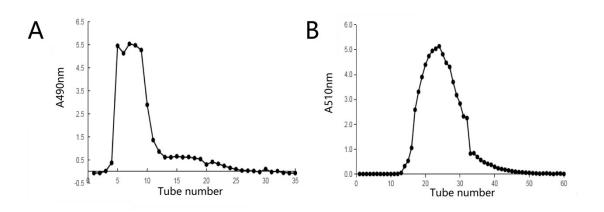
s-Figure 1: The purified flavones fraction CF sample at absorbance wavelength of (A) 490 nm and (B) 510 nm isolated from the crude flavones fraction extracted in the pretreatment M400+U400 group treated with ultrasonic wave (400 W) associated with microwave (400 W) for 40 mins using AB-8 macroporous resin.



Chemical component	Chemical formula	Retention time (min)	m/z	Error	Response value
Genistein-7,4'-di-O-β-D-glucoside	$C_{27}H_{30}O_{15}$	2.55	595.1666	0.9	11510
Naringin	$C_{27}H_{32}O_{14}$	3.2	581.1863	-0.2	379883
2"-O-Acetyl-3'-O-methylrutin	$C_{30}H_{34}O_{17}$	3.4	667.1881	1.3	130448
5,7,8,3'-Tetrahydroxy-3,4'-dimethoxy	$C_{17}H_{14}O_8$	3.55	347.0745	-1.6	29595

s-Table 1 The characteristic description of the flavone compositions in the

M400+U100 sample group based on PR-LCMS analysis

s-Table 2 The characteristic description of the flavone compositions in the

Chamical common and	Chemical	Retention	1	Emer a	Response
Chemical component	formula	time (min)	m/z	Error	value
Genistein-7,4'-di-O-β-D-glucoside	$C_{27}H_{30}O_{15}$	2.53	595.1664	0.6	12654
Naringenin-4'-glucoside-7-rutinoside	$C_{33}H_{42}O_{19}$	2.69	743.2399	0.6	8108
Naringin	$C_{27}H_{32}O_{14}$	3.18	581.1869	0.4	499539
2"-O-Acetyl-3'-O-methylrutin	$C_{30}H_{34}O_{17}$	3.39	667.1873	0.4	153917

U400→M400 sample group based on PR-LCMS analysis

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Chemical component	Chemical	Retention		Error	Response
Chemical component	formula	time (min)	m/z	EII0I	value
Genistein-7,4'-di-O-β-D-glucoside	$C_{27}H_{30}O_{15}$	2.53	595.1664	0.7	35201
Kaempferol-3-O-(2G-α-L-rhamnosyl)- rutinoside	$C_{33}H_{40}O_{19}$	2.65	741.2233	-0.4	10779
Naringenin-4'-glucoside-7-rutinoside	$C_{33}H_{42}O_{19}$	2.69	743.24	0.7	21640
Naringin	$C_{27}H_{32}O_{14}$	3.18	581.1871	0.6	573260
2"-O-Acetyl-3'-O-methylrutin	$C_{30}H_{34}O_{17}$	3.39	667.1886	1.7	287817
2"-O-Acetylrutin	$C_{29}H_{32}O_{17}$	3.56	653.1728	1.6	64167

s-Table 3 The characteristic description of the flavone compositions in the Water

Bath sample group based on PR-LCMS analysis

Chemical component	Chemical	Retention	m/z	Error	Response
Chemical component	formula	time (min)	111/ Z	LIIUI	value
Genistein-7,4'-di-O-β-D-glucoside	$C_{27}H_{30}O_{15}$	2.53	595.165	-0.8	6355
Naringin	$C_{27}H_{32}O_{14}$	3.18	581.1873	0.8	372893
2"-O-Acetyl-3'-O-methylrutin	$C_{30}H_{34}O_{17}$	3.38	667.1877	0.9	85641
5,7,8,3'-Tetrahydroxy-3,4'-dimethoxy	$C_{17}H_{14}O_8$	3.55	347.0745	-1.6	60439

s-Table 4 The characteristic description of the flavone compositions in the

M100+U400 sample group based on PR-LCMS analysis

samprog	Stoup bused on I		19515		
	Chemical	Retention		Error	Response
Chemical component	formula	time (min)	m/z	Error	value
Genistein-7,4'-di-O-β-D-glucoside	$C_{27}H_{30}O_{15}$	2.53	595.1666	0.9	14218
Naringin	$C_{27}H_{32}O_{14}$	3.18	581.1868	0.3	449671
2"-O-Acetyl-3'-O-methylrutin	$C_{30}H_{34}O_{17}$	3.38	667.1875	0.7	153757
Xanthohumol	$C_{21}H_{22}O_5$	6.72	355.152	-2	5145

s-Table 5 The characteristic description of the flavone compositions in the M400

sample group based on PR-LCMS analysis

s-Table 6 The characteristic description of the flavone compositions in the

Chamical component	Chemical	Retention	m/z	Error	Response
Chemical component	formula	time (min)		EII0I	value
Genistein-7,4'-di-O-β-D-glucoside	$C_{27}H_{30}O_{15}$	2.53	595.1654	-0.4	13659
Naringenin-4'-glucoside-7-rutinoside	$C_{33}H_{42}O_{19}$	2.69	743.2404	1.1	8338
Naringin	$C_{27}H_{32}O_{14}$	3.18	581.1871	0.6	488164
2"-O-Acetyl-3'-O-methylrutin	$C_{30}H_{34}O_{17}$	3.38	667.187	0.1	153231

M400→U400 sample group based on PR-LCMS analysis

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Chemical component	Chemical	Retention	m/z	Error	Response
Chemical component	formula	time (min)	111/ Z	LIIUI	value
Genistein-7,4'-di-O-β-D-glucoside	$C_{27}H_{30}O_{15}$	2.53	595.1662	0.4	21501
Naringenin-4'-glucoside-7-rutinoside	$C_{33}H_{42}O_{19}$	2.69	743.2399	0.6	12972
Naringin	$C_{27}H_{32}O_{14}$	3.18	581.1862	-0.3	536799
2"-O-Acetyl-3'-O-methylrutin	$C_{30}H_{34}O_{17}$	3.38	667.187	0.2	264773

s-Table 7 The characteristic description of the flavone compositions in the U400

sample group based on PR-LCMS analysis

Chamical component	Chemical	Retention	m/z	Ema	Response
Chemical component	formula	time (min)	III/Z	Error	value
Naringin	$C_{27}H_{32}O_{14}$	3.18	581.1865	0	76656
2"-O-Acetyl-3'-O-methylrutin	$C_{30}H_{34}O_{17}$	3.38	667.1872	0.4	11505
5,7,8,3'-Tetrahydroxy-3,4'-dimethoxy	$C_{17}H_{14}O_8$	3.55	347.0753	-0.8	64167
(3R)-Duartin	$C_{18}H_{20}O_{6}$	5.04	333.1314	0.9	13173

M400+U400-30 sample group based on PR-LCMS analysis

Chemical component	Chemical	Retention	m/7	Error	Response
Chemical component	formula	time (min)	m/z	Error	value
Genistein-7,4'-di-O-β-D-glucoside	$C_{27}H_{30}O_{15}$	2.53	595.1668	1	29156
Naringin	$C_{27}H_{32}O_{14}$	3.18	581.1863	-0.2	572478
2"-O-Acetyl-3'-O-methylrutin	$C_{30}H_{34}O_{17}$	3.38	667.788	1.2	100598
5,7,8,3'-Tetrahydroxy-3,4'-dimethoxy	$C_{17}H_{14}O_8$	3.55	347.0752	-0.9	418181
(3R)-Duartin	$C_{18}H_{20}O_{6}$	5.12	333.1324	-0.9	50422

s-Table 9 The characteristic description of the flavone compositions in the

M400+U400-40 sample §	group based of	n PR-LCMS analysis
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