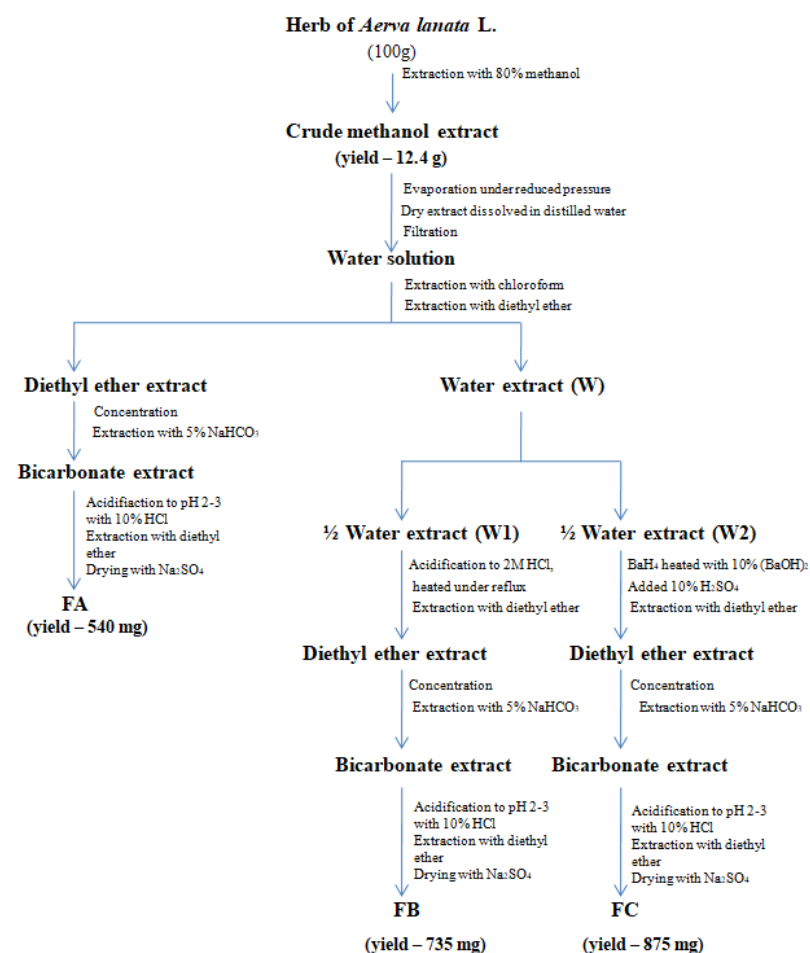


## Supplementary materials

### Antioxidant, anti-inflammatory, and anti-diabetic activity of phenolic acids fractions obtained from *Aerva lanata* (L.) Juss.



**Figure S1:** Scheme of extraction of phenolic acids from fractions obtained from *Aerva lanata* L.

**Table S1:** LC-ESI-MS/MS analytical results of phenolic acids investigated in samples. Compounds were confirmed by comparison with authentic standards

Compound	Retention time [min]	[M-H] <sup>-</sup> [m/z]	Fragment ions [m/z]	Collision energy [eV]
Gallic acid	5.00	168.7	78.9	-36
			124.9	-14
Homogentisic acid	5.27	166.8	123	-12
			108	-36
$\alpha$ -resorcylic acid	5.82	152.8	109	-12
			64.9	-20
Protocatechuic acid	5.85	152.9	80.9	-26
			107.8	-38

Caffeic acid	6.70	178.7	88.9	-46
			134.9	-16
Syringic acid	7.14	196.9	122.8	-24
			181.9	-12
4-hydroxybenzoic acid	7.27	136.8	92.9	-18
Vanillic acid	7.46	166.8	107.9	-18
			123	-12
Gentisic acid	7.72	352.9	80	-110
			96.9	-52
$\gamma$ -Resorcylic acid	7.90	152.8	108.9	-14
			65	-30
3-hydroxybenzoic acid	8.08	136.9	93	-16
			75	-48
$\beta$ -Resorcylic acid	8.92	152.8	108.9	-12
			65	-24
Sinapic acid	9.19	222.8	121	-36
			148.9	-20
p-Coumaric acid	9.28	162.8	93	-44
			119	-14
Ferulic acid	9.84	192.8	133.9	-16
			177.9	-12
Rosmarinic acid	10.18	358.7	132.6	-44
			160.8	-20
Isoferulic acid	10.49	192.8	133.9	-16
			177.9	-12
m-Coumaric acid	10.69	162.8	91	-36
			119	-14
Veratric acid	10.80	180.7	121.9	-18
			136.9	-12
o-Coumaric acid	11.87	162.8	119	-14
			93	-46
Salicylic acid	14.16	136.9	75	-48
			93	-16

**Table S2:** Limit of detection (LOD), limit of quantification (LOQ), and calibration curve parameters for phenolic acids

Compound	LOD [ng/mL]	LOQ [ng/mL]	R <sup>2</sup>	Linearity range [ng/mL]
Gallic acid	47.5	95	0.9980	190-3300
Homogentisic acid	34	68	0.9995	136-11100
Protocatechuic acid	17	34	0.9992	68-3470
$\alpha$ -Resorcylic acid	174	347	0.9990	347-3470
Caffeic acid	40	160	0.9990	320-3500
Syringic acid	166	666	0.9985	666-11100

4-hydroxybenzoic acid	17	34.7	0.9984	104.1-3470
Vanillic acid	125	250	0.9987	500-33000
Gentisic acid	1.6	3.3	0.9991	3.3-330
$\gamma$ -Resorcylic acid	40	200	0.9982	200-7000
3-hydroxybenzoic acid	84	167	0.9985	334-6670
$\beta$ -Resorcylic acid	50	100	0.9992	200-2000
Sinapic acid	17.4	69.4	0.9991	138.8-3470
<i>p</i> -Coumaric acid	7.3	18.1	0.9991	36.2-1820
Ferulic acid	17.4	34.7	0.9991	69.4-11600
Rosmarinic acid	7.1	17.9	0.9990	35.8-7140
Isoferulic acid	19	686	0.9985	686-11400
<i>m</i> -Coumaric acid	17	136	0.9987	174-17000
Veratric acid	1570	3140	0.9985	3140-31400
<i>o</i> -Coumaric acid	7.3	21.9	0.9991	21.9-1820
Salicylic acid	8.3	16.5	0.9985	16.5-1650