Supplementary Material

Rhododendron luteum Sweet Flower Supercritical CO_2 Extracts: Terpenes Composition, Pro-Inflammatory Enzymes Inhibition and Antioxidant Activity

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Table S1. LC gradient details used during LC-MS analysis of triterpenes.

Time (min)	Solution A (%)	Solution B (%)
0	68	32
5	68	32
6	62	38
12	62	38
18	56	44
21	56	44
26	43	57
31	43	57
32	38	62
41	38	62
42	30	70
47	30	70
52	5	95
63	5	95
66	0	100
72	0	100
75	68	32
85	68	32

Table S2. Summary of optimized parameters for the quantitative analysis of triterpenes.

Compound	Retention time (min)	Polarity	Precursor ion (m/z)	Fragment ions (m/z)	Collision energy (V)
Arjungenin	7.78	neg	503.3	503.3	-17
				409	-46.9
Euscaphic acid	16.84	neg	487.3	487.3	-27.7
				455.4	-27.5
Arjunic acid	23.41	pos	471.5	105.2	85.9
				91.1	104.5
Maslinic acid	29.95	neg	471.3	471.3	-22.3
				423.1	-63.4
Corosolic acid	30.76	neg	471.4	471.4	-24.5
				423.3	-36.9
Betulinic acid	42.7	pos	439	95	54
				81	57.7
Ursolic acid	43.82	neg	455.4	455.4	-22.2
				407.3	-51
Oleanolic acid	43.65	pos	439	91.2	108.6
				119.1	63
Erythrodiol	47.62	pos	425.4	95.2	50.6
				81.2	67.1
Uvaol	47.90	pos	425.3	95.2	53
				81.2	69
Lupeol	62.86	pos	409.6	95.21	50.5
				81.2	61.5
3β-Taraxerol	64.72	pos	409.4	95.3	53.2
				81.2	56.7
α-Amyrin	65.96	pos	409.6	367.4	27.8
				409.6	25.1
β-Sitosterol	68.85	pos	397.6	91.1	95.1
				105.1	66.8

Table S3. Analytical parameters of LC-MS/MS quantitative method for determination of triterpenes.

Compound	LOD [μg/mL]	LOQ [μg/mL]	Linearity range [ng/mL]	R^2
Euscaphic acid	0.40	0.8	1000-60000	0.9989
Maslinic acid	0.60	1.00	1000-5000	0.9981
Corosolic acid	0.3125	0.625	625-20000	0.9992
Betulinic acid	0.625	1.25	1250-20000	0.9993
Ursolic acid	0.15	0.31	313-20000	0.9996
Oleanolic acid	1.05	1.80	1800 - 50000	0.9999
Erythrodiol	0.2	0.313	313-20000	0.9993
Uvaol	0.625	1.25	1560 - 50000	0.9992
Lupeol	0.20	0.32	313-20000	0.9996
3β-Taraxerol	0.625	1.25	313-20000	0.9984
α-Amyrin	0.5	1.13	1560 - 50000	0.9995
β-Sitosterol	0.45	0.80	800-20000	0.9993