Supporting Information

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Phytochemical Characterization and *in vivo* Anti-inflammatory and Wound-healing Activities of *Argania spinosa* (L.) Skeels Seed Oil

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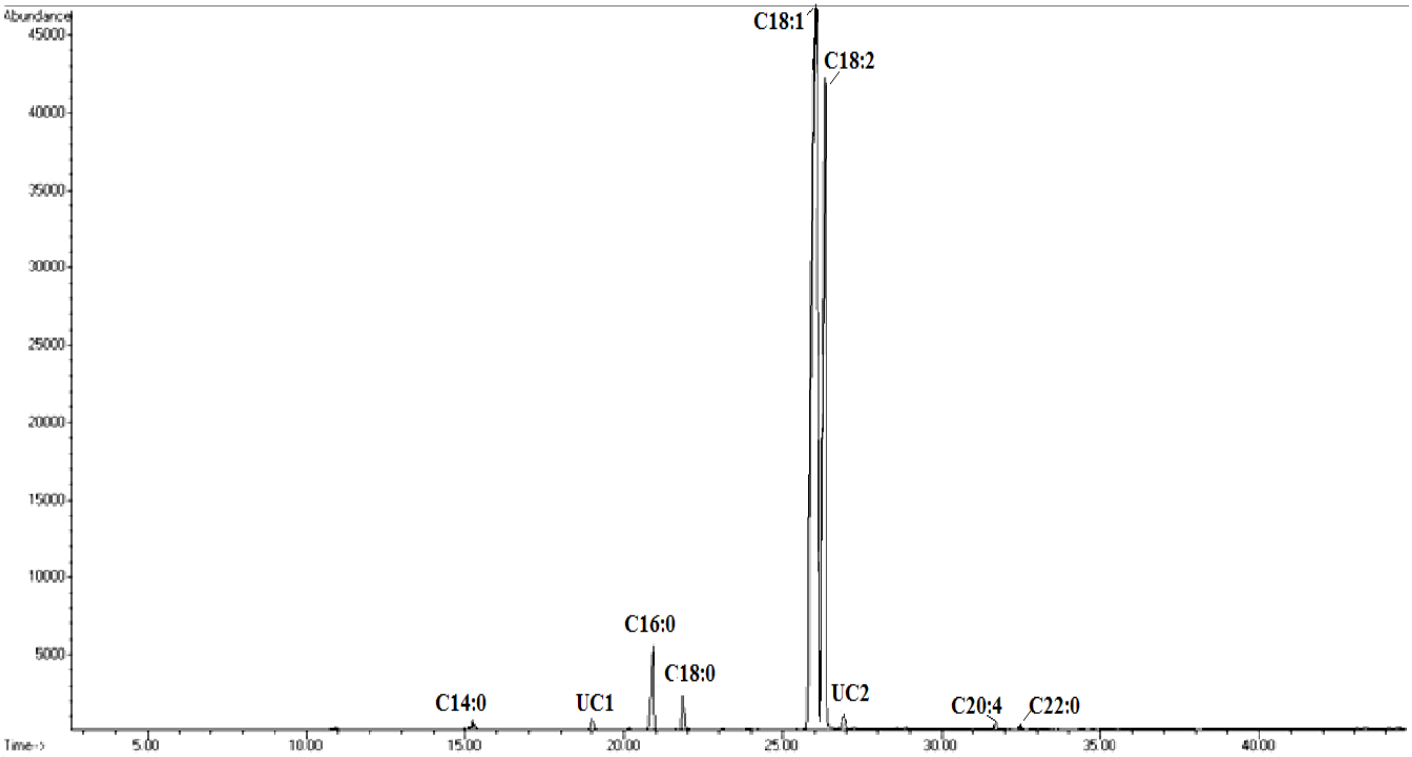
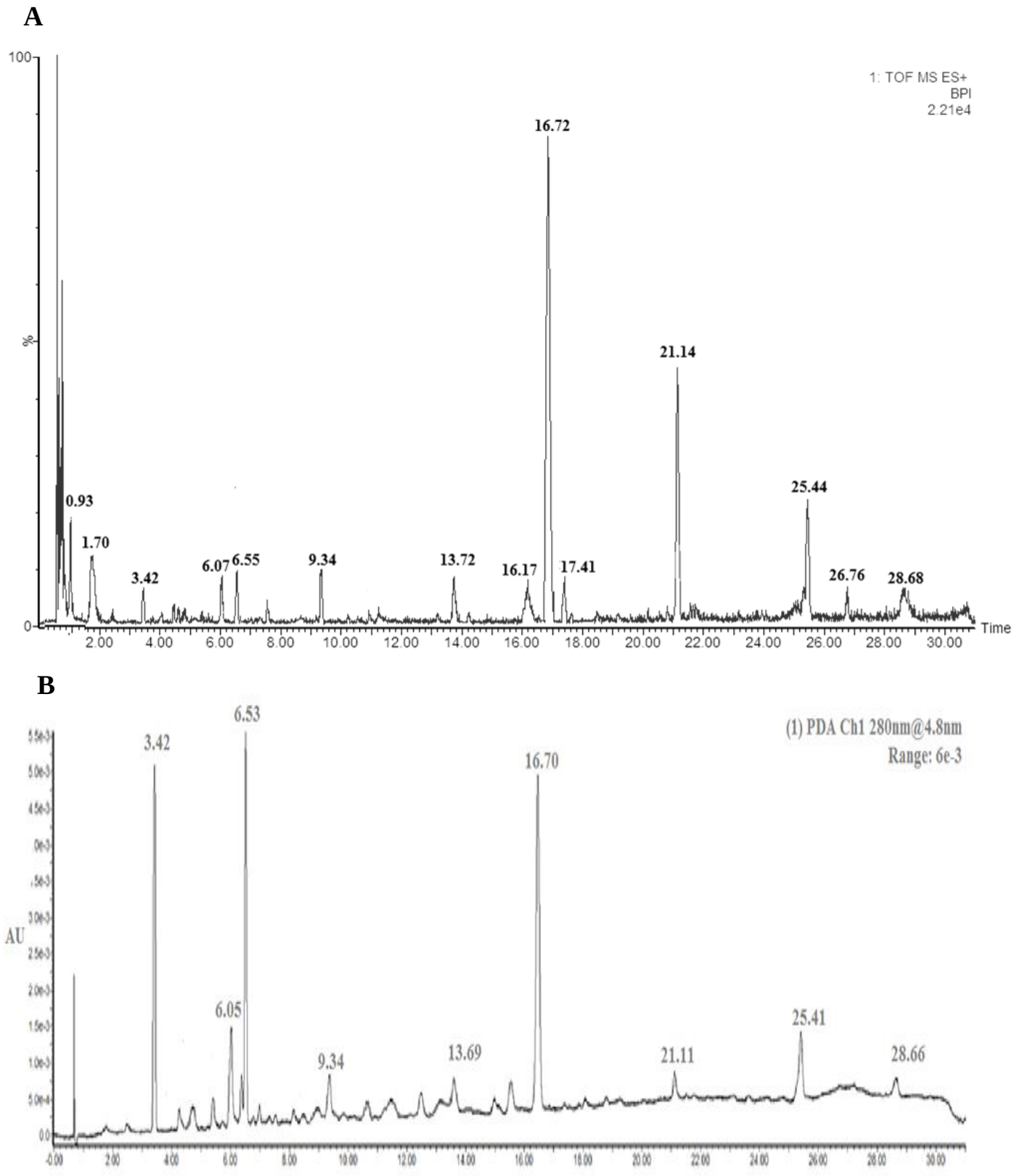


C14:0 Myristic acid; **UC 1:** Unidentified Compound **1**; **C16:0** Palmetic acid; **C18:0** Stearic acid; **C18:1** Oleic acid; **C18:2** Linoleic acid; **UC 2:** Unidentified compound **2**; **C20:4** Arachidonic acid; **C22:0** Behenic acid**.**

S1: *GC-MS* chromatogram of fatty acids methyl ester composition of *Argania spinosa* L. seed oil.



S2: *UPLC* positive polarity ionisation mode chromatogram (**A**) and *UPLC-PDA* chromatogram at 280 nm (**B**) of phenolic compounds extracted from *Argania spinosa* L. seed oil.

S3: Phenolic compounds extracted from argan oil by liquid–liquid extraction and detected by UPLC-ESI-QTOF-MS method.

Peak	Rt (min)	Experimental Mass	Calculated Mass	*m/z* Major and Characteristic ion	Compounds	Ref.
Compounds Identified						
02	01.70	526.15	526.16	527.15	Demethyloleuropein	[28]
03	03.42	163.98	164.04	164.98	Coumaric acid	[25]
04	06.07	179.98	180.08	180.98	Caffeic acid	[26]
05	06.55	168.01	168.04	169.01	Vanillic acid	[27]
09	16.72	138.12	138.03	139.12	Hydroxybenzoic acid	[28]
Compounds unidentified					**Formula**	
01	00.93	202.05	202.08	203.05	C9 H14 O5	/
06	09.34	420.16	420.31	421.16	C23 H40 N4 O3	/
07	13.72	121.08	--	122.08	n.i.	/
08	16.17	119.08	--	120.08	n.i.	/
10	17.41	158.09	158.11	159.09	C8 H16 N O2	/
11	21.14	172.10	172.07	173.10	C8H12O4	/
12	25.44	160.06	160.07	161.06	C8 H8 N4	/
13	26.76	214.11	--	215.11	n.i.	/
14	28.68	380.13	380.16	381.13	C17 H24 N4 O6	/

n.i.: not identified.

S4: Descriptive statistic and ANOVA tables of excision wounds.

Excision wound area

6th day

Descriptive Statistics

	Sample Size	Mean	Standard Deviation	SE of Mean
Madecassol	5	137,532	22,35803	9,99882
ASO	5	129,368	22,35803	9,99882
Placebo	5	222,312	29,23743	13,07538

One Way ANOVA

Overall ANOVA

	DF	Sum of Squares	Mean Square	F Value	Prob>F
Model	2	26488,14405	13244,07203	21,42371	1,09686E-4
Error	12	7418,36304	618,19692		
Total	14	33906,50709			

Null Hypothesis: The means of all levels are equal.
Alternative Hypothesis: The means of one or more levels are different.
At the 0.05 level, the population means are significantly different.

Fit Statistics

	R-Square	Coeff Var	Root MSE	Data Mean
	0,78121	0,15247	24,86357	163,07067

Excision wound area

12th Day

Descriptive Statistics

	Sample Size	Mean	Standard Deviation	SE of Mean
Madecassol®	5	45,844	9,82975	4,396
ASO	5	29,516	13,43245	6,00717
Placebo	5	129,368	22,35803	9,99882

One Way ANOVA

Overall ANOVA

	DF	Sum of Squares	Mean Square	F Value	Prob>F
Model	2	28688,80677	14344,40339	55,38832	8,71752E-7
Error	12	3107,74592	258,97883		
Total	14	31796,55269			

Null Hypothesis: The means of all levels are equal.
Alternative Hypothesis: The means of one or more levels are different.
At the 0.05 level, the population means are significantly different.

Fit Statistics

	R-Square	Coeff Var	Root MSE	Data Mean
	0,90226	0,23582	16,09282	68,24267

S5: Descriptive statistic and ANOVA tables of linear incisions.

Linear incision

6th day

Descriptive Statistics

	Sample Size	Mean	Standard Deviation	SE of Mean
Madecassol®	5	17,8	1,48324	0,66332
ASO	5	14	1,58114	0,70711
Placebo	5	27,2	1,48324	0,66332

One Way ANOVA

Overall ANOVA

	DF	Sum of Squares	Mean Square	F Value	Prob>F
Model	2	461,73333	230,86667	100,37681	3,21978E-8
Error	12	27,6	2,3		
Total	14	489,33333			

Null Hypothesis: The means of all levels are equal.
Alternative Hypothesis: The means of one or more levels are different.
At the 0.05 level, the population means are significantly different.

Fit Statistics

	R-Square	Coeff Var	Root MSE	Data Mean
	0,9436	0,07711	1,51658	19,66667

linear incision

12th day

Descriptive Statistics

	Sample Size	Mean	Standard Deviation	SE of Mean
Madecassol	5	2,4	0,89443	0,4
ASO	5	2	0,70711	0,31623
Placebo	5	18,2	1,48324	0,66332

One Way ANOVA

Overall ANOVA

	DF	Sum of Squares	Mean Square	F Value	Prob>F
Model	2	853,73333	426,86667	365,88571	1,7638E-11
Error	12	14	1,16667		
Total	14	867,73333			

Null Hypothesis: The means of all levels are equal.
Alternative Hypothesis: The means of one or more levels are different.
At the 0.05 level, the population means are significantly different.

Fit Statistics

	R-Square	Coeff Var	Root MSE	Data Mean
	0,98387	0,14338	1,08012	7,53333