Supplementary data:

Table S1: Dunnett's multiple comparison test for the effect of petroleum benzene (PB) extract of *M. chamomilla* flower with control on inhibition of CFU in C4-2 cells

Dunnett's multiple comparisons test	Mean Diff.	95.00% CI of diff.	Significant	Summary	Adjusted P Value
Ctrl vs. 6.25	12.25	4.573 to 19.93	Yes	**	0.002
Ctrl vs. 12.5	22.75	15.07 to 30.43	Yes	***	<0.001
Ctrl vs. 25	34.75	27.07 to 42.43	Yes	***	<0.001
Ctrl vs. 50	59	51.32 to 66.68	Yes	***	<0.001
Ctrl vs. 100	87.5	79.82 to 95.18	Yes	***	<0.001

P<0.05, p<0.01, P<0.001, p>0.0.05 will be considered as significant, highly significant, extremely significant and insignificant respectively compared with control.

Table S2: Dunnett's multiple comparisons test for the effect of ethyl acetate (EA) extract of *M. chamomilla* flower with control on inhibition of CFU in C4-2 cells

Dunnett's multiple comparisons test	Mean Diff.	95.00% CI of diff.	Significant	Summary	Adjusted P Value
Ctrl vs. 6.25	37.5	25.9 to 49.1	Yes	****	0.0001
Ctrl vs. 12.5	55	43.4 to 66.6	Yes	****	0.0001
Ctrl vs. 25	60	48.4 to 71.6	Yes	****	0.0001
Ctrl vs. 50	95	83.4 to 106.6	Yes	****	0.0001
Ctrl vs. 100	105	93.4 to 116.6	Yes	****	0.0001

P<0.05, p<0.01, P<0.001, p>0.0.05 will be considered as significant, highly significant, extremely significant and insignificant respectively compared with control.

Table S3: Dunnett's multiple comparisons test for the effect of methanol (MeOH) extract of *M. chamomilla* flower with control on inhibition of CFU in C4-2 cells

Dunnett's multiple comparisons test	Mean Diff.	95.00% CI of diff.	Significant	Summary	Adjusted P Value
Ctrl vs. 6.25	8	-1.815 to 17.81	No	Ns	0.13
Ctrl vs. 12.5	18.25	8.435 to 28.06	Yes	***	<0.001
Ctrl vs. 25	35.5	25.69 to 45.31	Yes	***	<0.001
Ctrl vs. 50	63	53.19 to 72.81	Yes	***	<0.001
Ctrl vs. 100	80.5	70.69 to 90.31	Yes	***	<0.001

P<0.05, p<0.01, P<0.001, p>0.05 will be considered as significant, highly significant, extremely significant and insignificant respectively compared with control.

Table S4: Dunnett's multiple comparisons test for the effect of hydro alcoholic (HA) extract of *M. chamomilla* flower with control on inhibition of CFU in C4-2 cells

Dunnett's multiple comparisons test	Mean Diff.	95.00% CI of diff.	Significant	Summary	Adjusted P Value
Ctrl vs. 6.25	24	15.46 to 32.54	Yes	****	0.0001
Ctrl vs. 12.5	38	29.46 to 46.54	Yes	****	0.0001
Ctrl vs. 25	49	40.46 to 57.54	Yes	****	0.0001
Ctrl vs. 50	58.5	49.96 to 67.04	Yes	****	0.0001
Ctrl vs. 100	62.5	53.96 to 71.04	Yes	****	0.0001

P<0.05, p<0.01, P<0.001, p>0.0.05 will be considered as significant, highly significant, extremely significant and insignificant respectively compared with control.

Table S5: Dunnett's multiple comparisons test for the effect of aqueous (AQ) extract of *M. chamomilla* flower with control on inhibition of CFU in C4-2 cells

Dunnett's multiple comparisons test	Mean Diff.	95.00% CI of diff.	Significant	Summary	Adjusted P Value
Ctrl vs. 6.25	23.5	16.95 to 30.05	Yes	***	<0.001
Ctrl vs. 12.5	42.25	35.7 to 48.8	Yes	***	<0.001
Ctrl vs. 25	53.75	47.2 to 60.3	Yes	***	<0.001
Ctrl vs. 50	70.5	63.95 to 77.05	Yes	***	<0.001
Ctrl vs. 100	76.25	69.7 to 82.8	Yes	***	<0.001

P<0.05, p<0.01, P<0.001, p>0.0.05 will be considered as significant, highly significant, extremely significant and insignificant respectively compared with control.

Table S6: Analysis of variance for inhibition of wound healing in C4-2 cells treated with *Matricaria chamomilla* Linn flowers.

Source of Variation	% of total variation	P value summary		Significant	P value
Interaction	1.766	Ns		No	0.8072
Row Factor	62.48	****		Yes	<0.0001
Column Factor	28.8	****		Yes	<0.0001
ANOVA table	**SS**	**DF**	**MS**	**F (DFn, DFd)**	**P value**
Interaction	909.9	25	36.4	F (25, 72) = 0.7318	P=0.8072
Row Factor	32188	5	6438	F (5, 72) = 129.4	P<0.0001
Column Factor	14835	5	2967	F (5, 72) = 59.66	P<0.0001
Residual	3581	72	49.73	-	-

P<0.05, p<0.01, P<0.001, p>0.05 will be considered as significant, highly significant, extremely significant and insignificant respectively compared with control.

Table S7: Dunnett's multiple comparisons test for inhibition of wound healing in C4-2 cells treated with *Matricaria chamomilla* L. flowers extracts

Dunnett's multiple comparisons test	**Mean Diff.**	**95.00% CI of diff.**	**Significant**	**Summary**	**Adjusted P Value**
0					
Control vs. MeOH	0	-9.334 to 9.334	No	Ns	>0.99
Control vs. AQ	0	-9.334 to 9.334	No	Ns	>0.99
Control vs. PE	0	-9.334 to 9.334	No	Ns	>0.99
Control vs. EA	0	-9.334 to 9.334	No	Ns	>0.99
Control vs. HA	0	-9.334 to 9.334	No	Ns	>0.99
24					
Control vs. MeOH	7.108	-2.226 to 16.44	No	Ns	0.19
Control vs. AQ	0.8085	-8.526 to 10.14	No	Ns	>0.99
Control vs. PE	1.584	-7.75 to 10.92	No	Ns	>0.99
Control vs. EA	2.142	-7.192 to 11.48	No	Ns	0.96
Control vs. HA	4.505	-4.829 to 13.84	No	Ns	0.60
48					
Control vs. MeOH	1.027	-8.307 to 10.36	No	Ns	>0.99
Control vs. AQ	8.886	-0.4482 to 18.22	No	Ns	0.07
Control vs. PE	-3.778	-13.11 to 5.556	No	Ns	0.74
Control vs. EA	-4.017	-13.35 to 5.318	No	Ns	0.70
Control vs. HA	4.15	-5.184 to 13.48	No	Ns	0.67
72					
Control vs. MeOH	-41.91	-51.24 to -32.57	Yes	***	<0.001
Control vs. AQ	-9.389	-18.72 to -0.05491	Yes	*	0.05
Control vs. PE	-32.25	-41.58 to -22.91	Yes	***	<0.001
Control vs. EA	-46.5	-55.83 to -37.16	Yes	***	<0.001
Control vs. HA	-26.85	-36.19 to -17.52	Yes	***	<0.001

Table S8: Effect of *M. chamomilla* L. flowers on cell migration in C4-2 cells (Wound closure)

Source of Variation	**% of total variation**	**P value**	**P value summary**	**Significant**	
Interaction	17.81	<0.0001	****	Yes	
Row Factor	67.69	<0.0001	****	Yes	
Column Factor	12.16	<0.0001	****	Yes	
ANOVA table	SS	DF	MS	F (DFn, DFd)	P value
Interaction	8950	20	447.5	F (20, 60) = 22.84	P<0.0001
Row Factor	34012	4	8503	F (4, 60) = 434	P<0.0001
Column Factor	6110	5	1222	F (5, 60) = 62.37	P<0.0001
Residual	1176	60	19.59		

Table S9: Dunnett's multiple comparison test on wound closure in C4-2 cells treated with *Matricaria chamomilla* L. flowers extracts

Dunnett's multiple comparisons test	Mean Diff.	95.00% CI of diff.	Significant	Summary	Adjusted P Value
0					
Control vs. MeOH	0	-9.334 to 9.334	No	Ns	0.9999
Control vs. AQ	0	-9.334 to 9.334	No	Ns	0.9999
Control vs. PE	0	-9.334 to 9.334	No	Ns	0.9999
Control vs. EA	0	-9.334 to 9.334	No	Ns	0.9999
Control vs. HA	0	-9.334 to 9.334	No	Ns	0.9999
24					
Control vs. MeOH	-7.108	-16.44 to 2.226	No	Ns	0.1924
Control vs. AQ	-0.8085	-10.14 to 8.526	No	Ns	0.9997
Control vs. PE	-1.584	-10.92 to 7.75	No	Ns	0.9905
Control vs. EA	-2.142	-11.48 to 7.192	No	Ns	0.9646
Control vs. HA	-4.505	-13.84 to 4.829	No	Ns	0.6020
48					
Control vs. MeOH	-1.027	-10.36 to 8.307	No	Ns	0.9984
Control vs. AQ	-8.886	-18.22 to 0.4482	No	Ns	0.0672
Control vs. PE	3.778	-5.556 to 13.11	No	Ns	0.7440
Control vs. EA	4.017	-5.318 to 13.35	No	Ns	0.6982
Control vs. HA	-4.15	-13.48 to 5.184	No	Ns	0.6721
72					
Control vs. MeOH	41.91	32.57 to 51.24	Yes	****	0.0001
Control vs. AQ	9.389	0.05491 to 18.72	Yes	*	0.0482
Control vs. PE	32.25	22.91 to 41.58	Yes	****	0.0001
Control vs. EA	46.5	37.16 to 55.83	Yes	****	0.0001
Control vs. HA	26.85	17.52 to 36.19	Yes	****	0.0001

$P<0.05$, $p<0.01$, $P<0.001$, $p>0.05$ will be considered as significant, highly significant, extremely significant and insignificant respectively compared with control. Data was statistically analyzed by ANOVA followed by Dunnett's test given in Table 19 and 20.