



Fig. S1 *Psoralea corylifolia* seeds

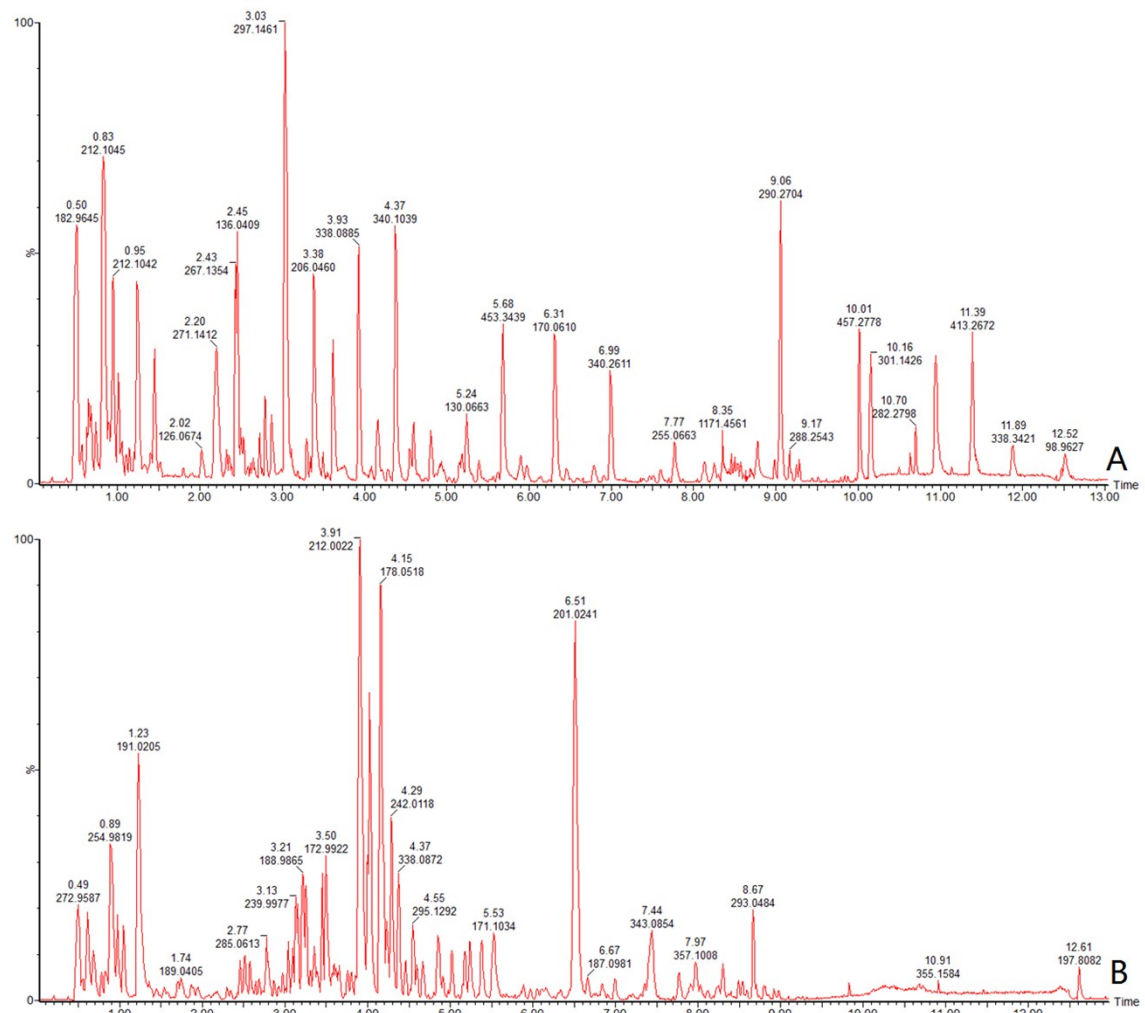


Fig.S2. UPLC chromatogram of the PCS samples. (A) Positive ion mode. (B) Negative ion mode.

Table S1: The metabolite signatures information through untargeted liquid chromatography coupled with mass spectrometry.

Rt/min	M/Z	Exact mass	Scan mode	M+X	Proposed composition	Predicting compound	HMDB ID	Mass Error (ppm)	Chang trend	Callback trend
0.67	348.0712	347.2212	ESI+	M+H	C ₁₀ H ₁₄ N ₅ O ₇ P	Adenosine monophosphate	HMDB0000045	2.297	↑**	##
0.68	300.049	301.1877	ESI-	M-H	C ₈ H ₁₆ NO ₉ P	N-Acetyl-D-Glucosamine 6-Phosphate	HMDB0001062	-0.03	↑**	
0.78	351.073	352.2928	ESI-	M-H	C ₁₆ H ₁₆ O ₉	Chlorogenoquinone	HMDB0029383	2.48	↓**	#
0.9	259.0974	258.2693	ESI+	M+H	C ₁₅ H ₁₄ O ₄	O-Desmethylangolensin	HMDB0004629	3.39	↓*	
1.21	455.2041	454.5122	ESI+	M+H	C ₂₆ H ₃₀ O ₇	Desoxylimonin	HMDB0035031	-5.17	↑**	
1.23	85.0299	86.0892	ESI-	M-H	C ₄ H ₆ O ₂	Gamma-Butyrolactone	HMDB0000549	4.25	↓**	##
1.23	129.0188	130.0987	ESI-	M-H	C ₅ H ₆ O ₄	Glutaconic acid	HMDB0000620	-4.34	↓**	##
1.96	263.0239	264.252	ESI-	M-H	C ₉ H ₁₂ O ₇ S	3-Methoxy-4-hydroxyphenylethy leneglycol sulfate	HMDB0000559	2.95	↑**	#
2.43	267.1398	266.3343	ESI+	M+H	C ₁₈ H ₁₈ O ₂	Dienestrol	HMDB0015027	7.03	↓**	
2.43	265.112	266.2979	ESI-	M-H	C ₁₅ H ₁₄ N ₄ O	Nevirapine	HMDB0014383	4.45	↑**	
2.45	154.0598	131.1332	ESI+	M+Na	C ₄ H ₉ N ₃ O ₂	Creatine	HMDB0000064	3.67	↓*	#
2.51	215.0819	216.2359	ESI-	M-H	C ₁₂ H ₁₂ N ₂ O ₂	L-1,2,3,4-Tetrahydro-	HMDB0035665	-3.37	↓**	

beta-carboline-3-carboxylic acid										
2.51	267.0799	268.332	ESI-	M-H	C ₁₂ H ₁₆ N ₂ O ₃ S	Cysteinyl-Phenylalanine	HMDB0028782	-3.52	↑**	
2.8	367.1774	366.4055	ESI+	M+H	C ₁₉ H ₂₆ O ₇	Diacetoxyscirpenol	HMDB0035104	6.14	↑**	##
2.8	276.146	275.301	ESI+	M+H	C ₁₂ H ₂₁ NO ₆	Glutarylcarnitine	HMDB0013130	6.595	↑**	##
2.8	247.1113	246.327	ESI+	M+H	C ₁₀ H ₁₈ N ₂ O ₃ S	Methionyl-Proline	HMDB0028981	0.72	↑**	##
2.8	228.0061	229.617	ESI-	M-H	C ₉ H ₈ C ₁ NO ₄	4-Chloro-6,7-dimethoxy-2-benzoxazolinone	HMDB0034577	-3.40	↑**	
2.88	302.08	302.2788	ESI+	M+H	C ₁₆ H ₁₄ O ₆	Hesperetin	HMDB0005782	3.12	↓**	
3.04	220.1205	219.2431	ESI+	M+H	C ₁₀ H ₁₃ N ₅ O	Cis-zeatin	HMDB0012204	5.39	↓**	
3.28	278.0815	279.29	ESI-	M-H	C ₁₇ H ₁₃ NO ₃	Graveolinine	HMDB0030244	-2.70	↑**	##
3.35	217.0151	218.338	ESI-	M-H	C ₁₂ H ₁₀ S ₂	Diphenyl disulfide	HMDB0031823	0.15	↓**	##
3.62	144.0476	143.207	ESI+	M+H	C ₆ H ₉ NOS	2-Propionyl-2-thiazoline	HMDB0032493	-1.08	↑*	##
3.82	269.0802	270.28	ESI-	M-H	C ₁₆ H ₁₄ O ₄	Isomedicarpin	HMDB0033305	-6.44	↑**	##
4.07	366.1682	365.4223	ESI+	M+H	C ₂₂ H ₂₃ NO ₄	Nequinat	HMDB0031754	-4.86	↓**	
4.16	105.0369	104.171	ESI+	M+H	C ₄ H ₈ OS	S-Ethyl thioacetate	HMDB0031190	0.18	↓**	#
4.16	179.0614	179.237	ESI+	M+H	C ₆ H ₁₃ NO ₃ S	Cyclamic acid	HMDB0031340	-1.20	↓*	
4.56	175.124	174.2423	ESI+	M+H	C ₁₁ H ₁₄ N ₂	N-Methyltryptamine	HMDB0004370	5.84	↓**	

4.67	91.0575	90.187	ESI+	M+H	C ₄ H ₁₀ S	2-Methyl-1-propanethiol	HMDB0031245	-0.91	↑**	
4.67	74.0254	75.0666	ESI-	M-H	C ₂ H ₅ NO ₂	Glycine	HMDB0000123	8.75	↑**	
4.69	306.1131	307.3432	ESI-	M-H	C ₁₉ H ₁₇ NO ₃	N-Acetylanonaine	HMDB0030349	-1.46	↑**	
5.19	295.1355	296.3603	ESI-	M-H	C ₁₉ H ₂₀ O ₃	Parakmerin A	HMDB0033950	5.20	↓**	
5.97	266.1288	266.3343	ESI+	M+H	C ₁₈ H ₁₈ O ₂	Dienestrol	HMDB0015027	-7.15	↓**	#
5.97	265.1257	266.3343	ESI-	M-H	C ₁₈ H ₁₈ O ₂	Dienestrol	HMDB0015027	8.49	↓**	#
6.11	335.0656	334.2192	ESI+	M+H	C ₁₁ H ₁₅ N ₂ O ₈ P	Nicotinamide ribotide	HMDB0000229	5.23	↓**	
6.27	304.1664	303.3562	ESI+	M+H	C ₁₆ H ₂₁ N ₃ O ₃	Tryptophyl-Valine	HMDB0029096	2.85	↑**	
6.86	389.125	390.388	ESI-	M-H	C ₂₀ H ₂₂ O ₈	trans-Piceid	HMDB0030564	2.01	↑**	##
6.91	280.1403	280.3196	ESI+	M+H	C ₁₄ H ₂₀ N ₂ O ₄	Tyrosyl-Valine	HMDB0029118	-7.01	↓**	
6.91	279.1395	280.3609	ESI-	M-H	C ₁₉ H ₂₀ O ₂	7-(4-Hydroxyphenyl)-1-phenyl-4-hepten-3-one	HMDB0033295	1.43	↓**	
7.58	200.1279	199.2469	ESI+	M+H	C ₁₀ H ₁₇ NO ₃	Ecgonine methyl ester	HMDB0006406	-1.24	↑**	
7.74	316.2018	315.41	ESI+	M+H	C ₁₈ H ₂₅ N ₃ O ₂	Saxagliptin	HMDB0015634	-0.50	↑**	#
7.77	254.0799	254.1809	ESI+	M+H	C ₆ H ₁₅ N ₄ O ₅ P	L-Phosphoarginine	HMDB0029438	7.54	↓**	
8.69	392.1841	391.4596	ESI+	M+H	C ₂₄ H ₂₅ NO ₄	Flavoxate	HMDB0015279	-3.8	↓**	

↑: The content of the model group was higher than that of the control group.

↓: The content of the model group was lower than that of the control group.

*: Compared with the control group, the content of markers in the model group changed significantly. ($p < 0.05$)

** : Compared with the control group, the content of markers in the model group changed extremely significantly. ($p < 0.01$)

#: Compared with the model group, the content of markers in treatment group changed significantly. ($p < 0.05$)

##: Compared with the model group, the content of markers in treatment group changed extremely significantly. ($p < 0.01$)