

Table 1S. Information on the ten batches of samples.

NO.	<i>Ginseng Radix et Rhizoma</i>	<i>Atractylodis Macrocephala e Rhizoma</i>	<i>Poria</i>	<i>Glycyrrhizae Rhizoma et Radix</i>	<i>Citri Reticulatae Pericarpium</i>	<i>Pinelliae Rhizoma</i>	<i>Jujubae Fructus</i>	<i>Zingiberis Rhizoma Recens</i>
S1	R0719814	B4269112	F1219933	G0419912	C1719516	20181121	SC101370402011	
S2	201101	201201	201001	201001	201101	200803	20210610	
S3	20210612	20210612	20210612	20210612	20210612	YBP0E0002	20210612	
S4	210101	201202	200601	210201	210301	YBP0G0008	210401	All buy in the supermarke t.
S5	210201	200701	200401	210301	200801	D2101017	201101	
S6	2.021E+09	GX210304	GX210406	GX210303	2101043-2	D2012037	210101	
S7	190801	201201	201101	201001	201101	D2103014	210401	
S8	20210701	20210701	20210701	20210701	20210701	D2012037	20210701	
S9	202106	202106	202106	202106	202106	20120101	202106	
S10	191101	20120403	20210105	20210503	20120301	20210701	21030103	

Table 2S. Information on the standard materials.

Standard Materials	Purity	Lot Number
Ephedrine hydrochlor ide	100%	171241-201809
Liquiritin	≥98%	wkq20022701
Hesperidin	≥98%	wkq20030407
Ginsenosid e RG1	≥98%	wkq20022711
Jujuboside	≥98%	wkq20042409
6-Gingerol	≥99.69%	MUST-18090710
Atractylen olide III	≥98%	wkq20051104

Table 3S. System adaptability test

Item		Relative standard deviation												
		F1	F2	F3	F4	F5	F6	F7	F8	F9	F10	F11	F12	F13
Precision	KSD of relative retention time (%)	0.0977	0.1500	0.0112	0.0029	0.1573	0.0067	0.0000	0.0105	0.0122	0.0208	0.0877	1.5008	0.8446
	KSD of relative peak area	4.7229	2.0322	4.7823	4.3619	4.5662	2.3226	0.0000	2.6584	2.9554	3.9542	4.1525	3.5126	4.0073
Stability	KSD of relative retention time (%)	0.5211	0.3455	0.1361	0.0627	0.0411	0.0123	0.0000	0.0318	0.0140	0.6951	0.2548	0.2036	0.1944
	KSD of relative peak area	3.0201	4.0188	1.6764	0.8757	1.0717	3.7935	0.0000	4.8264	2.0216	4.7718	4.5762	4.5653	4.9206
Repeatability	KSD of relative retention time (%)	0.3649	0.8312	0.1460	1.2232	0.9960	0.2249	0.0000	0.0229	1.0099	0.1885	0.1496	0.4714	0.2833
	KSD of relative peak area	4.6713	2.3092	4.8398	4.5804	4.1921	4.8850	0.0000	4.2214	3.8060	4.7864	4.7993	3.8827	4.8005

Table 4S. The Similarity of ten

No.	Similarity
S1	0.952
S2	0.965
S3	0.966
S4	0.955
S5	0.927
S6	0.979
S7	0.973
S8	0.979
S9	0.978
S10	0.932

Table 5S. Eigenvalue and variance contribution rate

Component	Initial eigenvalue			Extraction of square sum of loads		
	Total	Variance contribution rate %	Accumulation on contribution rate %	Total	Variance contribution rate %	Accumulation contribution rate %
1	5.88	45.231	45.231	5.88	45.231	45.231
2	3.239	24.917	70.148	3.239	24.917	70.148
3	1.632	12.55	82.698	1.632	12.55	82.698
4	0.843	6.485	89.183			
5	0.668	5.135	94.318			
6	0.318	2.448	96.766			
7	0.222	1.706	98.472			
8	0.183	1.409	99.881			
9	0.016	0.119	100			
10	9.97E-17	7.67E-16	100			
11	-1.10E-17	-8.43E-17	100			
12	-3.00E-16	-2.31E-15	100			
13	-8.22E-16	-6.32E-15	100			

Note: Principal component contribution rate refers to the proportion of the principal component variance of the surveyed random variables to the total variance. The higher the principal component contribution rate is, the higher the representativeness of the sample is.

Table 6S. Factor loading matrix

	Component		
	1	2	3
F4	0.939	-0.045	0.066
F8	0.829	-0.299	0.258
F10	0.817	-0.31	-0.365
F13	0.807	-0.281	-0.057
F9	0.801	-0.39	0.279
F3	0.786	0.502	-0.21
F12	0.741	0.324	-0.277
F6	0.661	-0.59	0.396
F1	0.281	0.868	-0.081
F7	0.194	0.864	0.138
F2	0.57	0.651	0.028
F11	0.405	-0.217	-0.775
F5	0.373	0.38	0.665

Table 7S. Ranking of principal component scores and comprehensive scores

No.	Principal component 1 score	Principal component 2 score	Principal component 3 score	Comprehensive scores	Sort
S1	-0.33	-0.5	2.6	0.05	6
S2	1.1	4.96	-0.22	1.7	1
S3	2.87	-1.03	-0.91	0.93	4
S4	0.92	-1.1	0.51	0.21	5
S5	1.9	-0.16	1.56	1.01	3
S6	3.48	-0.98	-1.36	1.16	2
S7	-1.49	-0.96	-1.1	-1.05	8
S8	-3.24	0.08	-1.11	-1.59	10
S9	-2.09	-0.07	-0.11	-0.98	7
S10	-3.11	-0.24	0.14	-1.45	9

Note: The weight of the principal component was obtained by dividing the component matrix by the square root of the eigenvalues of each component, and the component score was multiplied by the sum of the standardized data. Taking the variance contribution rate of principal component as the weight coefficient, the comprehensive score is multiplied by the sum of the corresponding weight coefficient and the cumulative variance contribution

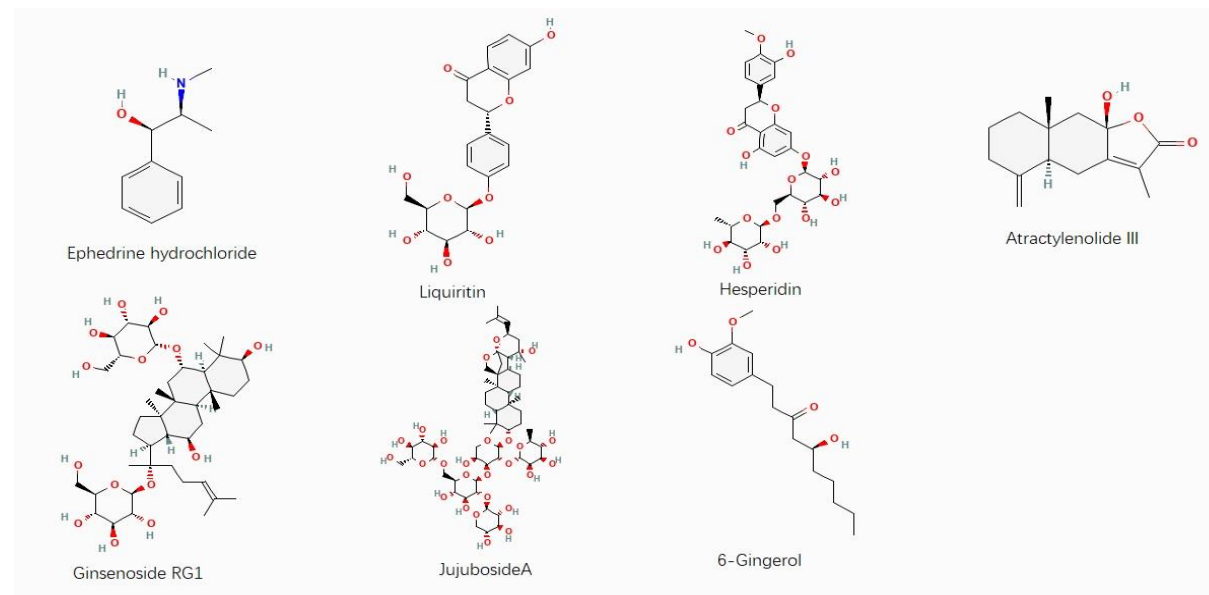


Figure 1S. Chemical structures of seven determined compounds.