

TABLE 1 | Prescription of Invigorate the Spleen and Tonify the Kidney (ISTK).

Latin name	Chinese name	Amount (g)	Lot No.	Place of origin	Company
Codonopsis pilosula.	Dangshen	12	190822-1	Shanxi, China	Shanghai WanShiCheng Chinese Medicine Co. Ltd.
Rhizoma Drynariae.	Gusuibu	9	2019062802	Chongqing, China	Shanghai DeHua Chinese Medicine Co. Ltd.
Acanthopanax senticosus.	Ciwujia	12	20200811	Changbai, China	Linjiang Tranquil Local Product Shop
Epimedium brevicornum Maxim.	Yinyanghuo	9	2019082006	Gansu, China	Shanghai DeHua Chinese Medicine Co. Ltd.
Slauia miltiorrhiza Bunge.	Danshen	12	200706	Shandong, China	Shanghai Hongqiao traditional Chinese medicine decoction pieces Co., Ltd.
Root of Angelicae Pubescens.	Duhuo	9	20200515-1	Hubei, China	Shanghai WanShiCheng Chinese Medicine Co. Ltd.

The voucher specimens were deposited at Longhua Hospital, affiliated with Shanghai University of TCM. The voucher numbers were as follows: Codonopsis pilosula (No.190822-1-Tang), Rhizoma Drynariae (NO.22019062802-Tang), Acanthopanax senticosus (No.20200811-Tang), Epimedium brevicornum Maxim (No.2019082006-Tang), Slauia miltiorrhiza Bunge (No.200706-Tang), Angelicae Pubescentis Radix (No.20200515-1-Tang).

TABLE 2 | The mass information and source of identified compounds in Invigorate the Spleen and Tonify the Kidney (ISTK) by high-performance liquid chromatography quadrupole time-of-flight mass spectrometry (HPLC–Q-TOF).

No	Identification	Formula	Mass	Rt(min)	Error(ppm)	Classification
1	Uridine*	C ₉ H ₁₂ N ₂ O ₆	244.07	3.00	1.1	/
2	cGMP	C ₁₀ H ₁₂ N ₅ O ₇ P	345.05	4.34	1.4	/
3	Adenosine*	C ₁₀ H ₁₃ N ₅ O ₄	267.10	4.70	-3.2	/
4	Guanosine*	C ₁₀ H ₁₃ N ₅ O ₅	283.09	6.91	0.8	/
5	Danshensu*	C ₉ H ₁₀ O ₅	198.05	8.86	0.9	Slauia miltiorrhiza Bunge.(SMB)
6	Codonopsine	C ₁₄ H ₂₁ NO ₄	267.15	9.41	1.3	Codonopsis pilosula.(CP)
7	Protocatechuicacid-3-O-glucoside	C ₁₃ H ₁₆ O ₉	316.08	9.43	1.5	SMB
8	3,4-Dihydroxybenzaldehyde*	C ₇ H ₆ O ₃	138.03	10.28	0.8	Epimedium brevicornum Maxim.(EBM) 、SMB、Acanthopanax senticosus.(AS)
9	Neochlorogenic acid*	C ₁₆ H ₁₈ O ₉	354.10	10.66	2.0	CP、EBM
10	Caffeic acid 3-O-β-D-glucoside	C ₁₅ H ₁₈ O ₉	342.10	11.00	3.9	SMB、Rhizoma Drynariae.(RD)
11	Eleutheroside B2	C ₂₃ H ₃₀ O ₁₄	530.16	11.43	2.5	AS
12	Chlorogenic acid*	C ₁₆ H ₁₈ O ₉	354.10	12.31	3.4	CP、EBM
13	Syringin*	C ₁₇ H ₂₄ O ₉	372.14	12.39	1.6	CP、AS
14	Cryptochlorogenic acid*	C ₁₆ H ₁₈ O ₉	354.10	12.80	2.6	CP、EBM
15	Magnoflorine*	C ₂₀ H ₂₄ NO ₄ ⁺	342.17	14.82	-0.3	EBM
16	Eleutheroside E*	C ₃₄ H ₄₆ O ₁₈	742.27	17.45	1.8	AS
17	Neeriocitrin*	C ₂₇ H ₃₂ O ₁₅	596.17	18.78	3.5	RD
18	Nodakenin*	C ₂₀ H ₂₄ O ₉	408.14	20.36	3.1	Root of Angelicae Pubescens.(RAP)
19	Salvianolic acid I	C ₂₇ H ₂₂ O ₁₂	538.11	20.40	2.2	SMB
20	Naringin*	C ₂₇ H ₃₂ O ₁₄	580.18	20.98	4.5	RD
21	Rosmarinic acid*	C ₁₈ H ₁₆ O ₈	360.08	22.28	3.6	SMB
22	Salvianolic acid E*	C ₃₆ H ₃₀ O ₁₆	718.15	22.28	1.7	SMB
23	Lithospermic acid*	C ₂₇ H ₂₂ O ₁₂	538.11	23.19	1.3	SMB
24	Salvianolic acid B*	C ₃₆ H ₃₀ O ₁₆	718.15	24.71	2.5	SMB
25	Salvianolic acid Y*	C ₃₆ H ₃₀ O ₁₆	718.15	26.38	2.9	SMB
26	Epimedin A	C ₃₉ H ₅₀ O ₂₀	838.29	27.97	0.4	EBM
27	Epimedin B	C ₃₈ H ₄₈ O ₁₉	808.28	28.37	2.9	EBM
28	Epimedin C*	C ₃₉ H ₅₀ O ₁₉	822.29	28.82	1.8	EBM
29	Icariin*	C ₃₃ H ₄₀ O ₁₅	676.24	29.13	3.9	EBM
30	Angelol A*	C ₂₀ H ₂₄ O ₇	376.15	30.40	4.5	RAP
31	Angelol C	C ₂₀ H ₂₆ O ₇	378.17	30.84	0.1	RAP
32	Angelol E	C ₂₀ H ₂₆ O ₇	378.17	31.14	0.1	RAP
33	Anhydroicaritin-3-O-rhamnoidide(1-2)- furanacid-7-O-glucoside	C ₃₉ H ₄₈ O ₁₉	820.28	31.53	3.0	EBM
34	Angelol B	C ₂₀ H ₂₄ O ₇	376.15	31.94	1.1	RAP
35	Angelol D	C ₂₀ H ₂₄ O ₇	376.15	32.58	0.0	RAP
36	Angelol F	C ₂₀ H ₂₆ O ₇	378.17	32.91	0.7	RAP
37	Angenomalin	C ₁₄ H ₁₂ O ₃	228.08	36.25	-1.5	RAP
38	Baohuoside I*	C ₂₇ H ₃₀ O ₁₀	514.18	38.28	3.9	EBM
39	3-Hydroxytanshinone IIB	C ₁₉ H ₁₈ O ₅	326.12	38.73	-2.5	SMB
40	Isocryptotanshinone*	C ₁₉ H ₂₀ O ₃	296.14	39.21	0.5	SMB
41	Osthole*	C ₁₅ H ₁₆ O ₃	244.11	39.69	-3.4	RAP
42	Cryptotanshinone	C ₁₉ H ₂₀ O ₃	296.14	40.84	0.5	SMB
43	Tanshinone I*	C ₁₈ H ₁₂ O ₃	276.08	40.93	-1.6	SMB
44	Tanshinone II A*	C ₁₉ H ₁₈ O ₃	294.13	42.16	0.0	SMB

*Identified with the reference compounds.