Supplementary Table S1 The information of fresh root of *Polygala tenuifolia*.

No.	Origin	Geographical Coordinate	Weight (Kg)	Time	Purpose
Spt 1	Caojia village, Yuyang District, Yulin City, Shaanxi province	38°16'25"N,109°97'95"E	50	March, 2023	Optimize the Production manufacturing process of Fresh Group (F Group)
Spt 2	Panfeng village, Hengshan County, Yulin City, Shaanxi province	37°53'33"N,109°15'22"E	50		
Spt 3	Qinmajian village, Jia County, Yulin City, Shaanxi province	38.00'32"N,110.22'63"E	50		
Spt 4	Fengjiamao village, Hengshan County, Yulin City, Shaanxi province	37°35'45"N,109°30'22"E	50		
Ct 1	Upstream of clear water village, Zizhou County, Yulin City, Shaanxi province	37°26'45"N,110°217"E	5	October, 2023	Contrast Research of Fresh Group (F Group) and Control Group (C Group)
Ct 2	Tuojiawan village, Zizhou County, Yulin City, Shaanxi province	37°27'19"N,110°1'2"E	5		
Ct 3	Liang western hill village, Hengshan County, Yulin City, Shaanxi province	37°34'28"N,109°26'41"E	5		
Ct 4	Peijia village, Hengshan County, Yulin City, Shaanxi province	37°23'5"N,110°3'7"E	5		
Ct 5	Gaoyapan village, Hengshan County, Yulin City, Shaanxi province	37°33'42"N,109°33'5"E	5		
Ct 6	Macha village, Zizhou County, Yulin City, Shaanxi province	37°33'28"N,109°37'34"E	5		
Ct 7	Heiquangou village, Zizhou County, Yulin City, Shaanxi province	37°22'35"N,109°55'18"E	5		
Ct 8	Dujia village (杜家村), Zizhou County, Yulin City, Shaanxi province	37°27'50"N,109°59'42"E	5		
Ct 9	Wenjia village, Zizhou County, Yulin City, Shaanxi province	37°38'39"N,109°48'44"E	5		
Ct 10	Lijia village, Zizhou County, Yulin City, Shaanxi province	37°25'58"N,110°0'59"E	5		
Ct 11	Hujia village, Hengshan County, Yulin City, Shaanxi province	37°35'5"N,109°26'10"E	5		
Ct 12	Guandao Village, Zizhou County, Yulin City, Shaanxi Province	37°22'19"N,109°59'54"E	5		
Ct 13	Fengjia village, Zizhou County, Yulin City, Shaanxi province	37°22'14"N,109°54'60"E	5		
Ct 14	Wangjia village, Hengshan County, Yulin City, Shaanxi province	37°33'60"N,109°26'33"E	5		
Ct 15	Weijia village, Hengshan County, Yulin City, Shaanxi province	37°32'56"N,109°31'22"E	5		
Ct 16	Huaining Bay village, Zizhou County, Yulin City, Shaanxi province	37°23'48"N,110°6'16"E	5		
Ct 17	Dujia village (杜家圪台村), Suide County, Yulin City, Shaanxi province	37°279"N,110°6'48"E	5		
Ct 18	圐圙 village Zizhou County of Yulin City, Shaanxi Province	37°21'37"N,109°54'53"E	5		
Qta 1-3	Peijia village, Hengshan County, Yulin City, Shaanxi province	37°23'5"N,110°3'7"E	10	March to August, 2023	Quasi-Targeted Metabolomics Analysis

Spt: Small pilot test Ct: Contrast test Qta: Quasi-Targeted Metabolomics Analysis