Supplementary materials

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Table S1 The specific RSD values for the methodological validation

Peak No.	Precision RSD (%)		Reproducibility RSD (%)		Stability RSD (%)	
	Retention Time	Peak Area	Retention Time	Peak Area	Retention Time	Peak Area
1	0.171	0.755	0.607	1.050	0.755	0.765
2	0.493	0.578	0.703	0.723	0.578	0.721
3	1.821	1.259	1.338	0.606	1.259	1.936
4	2.141	1.052	0.742	0.919	1.052	1.006
5	0.629	2.582	1.550	0.748	2.582	0.942
6	0.366	1.505	1.092	0.857	1.505	1.281
7	0.367	0.562	1.194	0.481	0.562	1.085
8	0.432	1.778	0.596	1.347	1.778	2.064
9	0.359	1.352	0.678	0.613	1.352	1.347
10	0.251	1.573	0.403	1.698	1.573	1.833
11	0.032	2.674	0.180	1.378	2.674	1.191
12	0.040	1.579	0.133	0.596	1.579	1.280
13	0.045	1.252	0.063	0.996	1.252	1.041
14	0.073	1.128	0.058	0.806	1.128	0.692
15	0.000	0.000	0.000	0.000	0.000	0.000
16	0.102	1.461	0.042	0.544	1.461	0.804
17	0.015	1.026	0.075	1.256	1.026	1.285

Table S2 Correlation coefficient of 17 common peaks with antioxidant activity of PLS

Peak No.	Correlation coefficient	
	ABTS	DPPH
1	-0.05152	-0.02355
2	0.03777	0.00293
3	-0.00650	-0.03977
4	0.02329	-0.04078
5	0.11104	0.15519
6	0.11512	0.07389
7	0.10352	0.12416
8	0.06995	-0.00361
9	0.06087	0.04094
10	0.04958	0.00113
11	0.04877	-0.00657
12	0.12883	0.08244
13	0.13270	0.10041
14	0.13966	0.14677
15	0.14311	0.14523
16	0.15062	0.15023
17	0.00321	-0.04940

Table S3 VIP value of 17 common peaks with antioxidant capacity of PLS

Peak No.	VIP value	
	ABTS	DPPH
1	0.40424	0.26425
2	0.68234	0.03291
3	0.37173	0.44620
4	0.49382	0.45760
5	1.09830	1.74141
6	1.13475	0.82913
7	1.06393	1.39318
8	0.58835	0.04052
9	0.85240	0.45933
10	0.89191	0.01264
11	0.97545	0.07372
12	1.43821	0.92502
13	1.43618	1.12665
14	1.31968	1.64687
15	1.33826	1.62959
16	1.28441	1.68566
17	0.47966	0.55434