

Supporting Information for lychee pulp phenolic extract

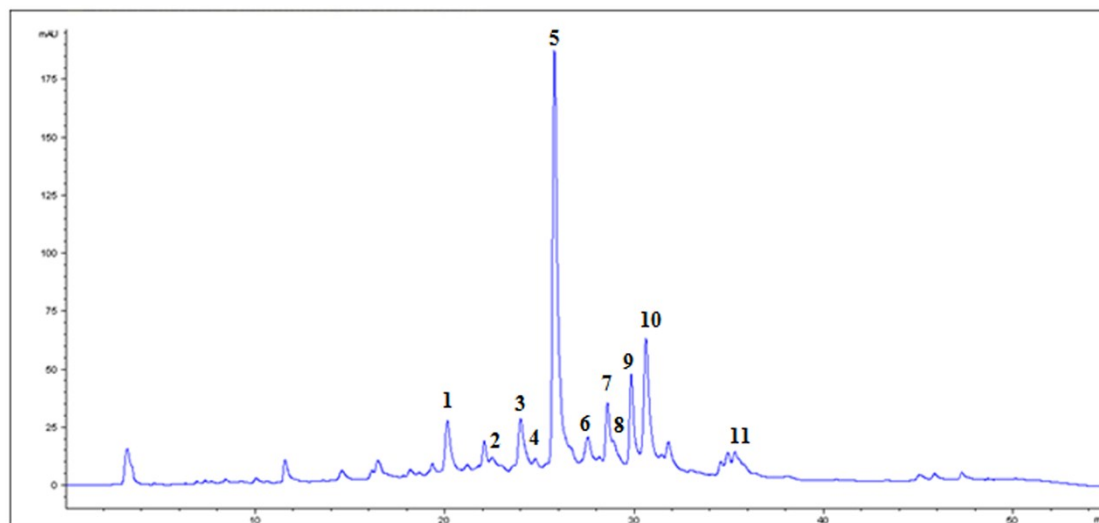


Fig. 1 HPLC profile of lychee pulp phenolic extract (LPPE)

Table 1 Contents of phenolic compositions in LPPE

Peak no.	Retention time (min)	Maximum absorption wavelength (nm)	Compound	Content
1	20.12	230, 279	Procyanidin B2	104.98 ± 3.11 ^a
2	22.47	232, 279	Epicatechin	34.91 ± 1.20 ^a
3	23.99	230, 279	-	33.96 ± 0.96 ^b
4	24.75	230, 279	-	6.36 ± 0.21 ^b
5	25.77	255, 352	Quercetin 3-O-rutinoside-7-O-a-L-rhamnosidase	260.49 ± 9.21 ^a
6	27.53	279, 322	-	4.56 ± 0.13 ^b
7	28.57	265, 346	-	22.79 ± 0.45 ^c
8	28.88	268, 352	-	16.04 ± 0.56 ^c
9	29.82	254, 352	-	26.76 ± 0.43 ^c
10	30.6	255, 352	Rutin	54.06 ± 1.52 ^a
11	35.29	254, 354	Isorhamnestin-3-O-rutinoside	16.49 ± 0.50 ^a

The phenolic composition and contents of the extract were determined by HPLC-DAD according to previously published methods.¹⁶ Information of phenolic compositions have compared with the previous research on phenolic compositions of lychee pulp.¹¹ Thus, peak 3, 4, 6 were deduced as procyanidins, and peak 7-9 were deduced as flavanone glycosides. The contents were expressed as means ± SD (n=3).

^a Procyanidin B2, epicatechin, quercetin 3-O-rutinoside-7-O-a-L-rhamnosidase, rutin and isorhamnestin-3-O-rutinoside were quantified with their own standard curves (mg g⁻¹).

^b Peak 3, 4, 6 were calculated as epicatechin equivalent (mg EE g⁻¹) using the standard curve of epicatechin.

^c Peak 7-9 were calculated as rutin equivalent (mg RE g⁻¹) using the standard curve of rutin.