Back to article

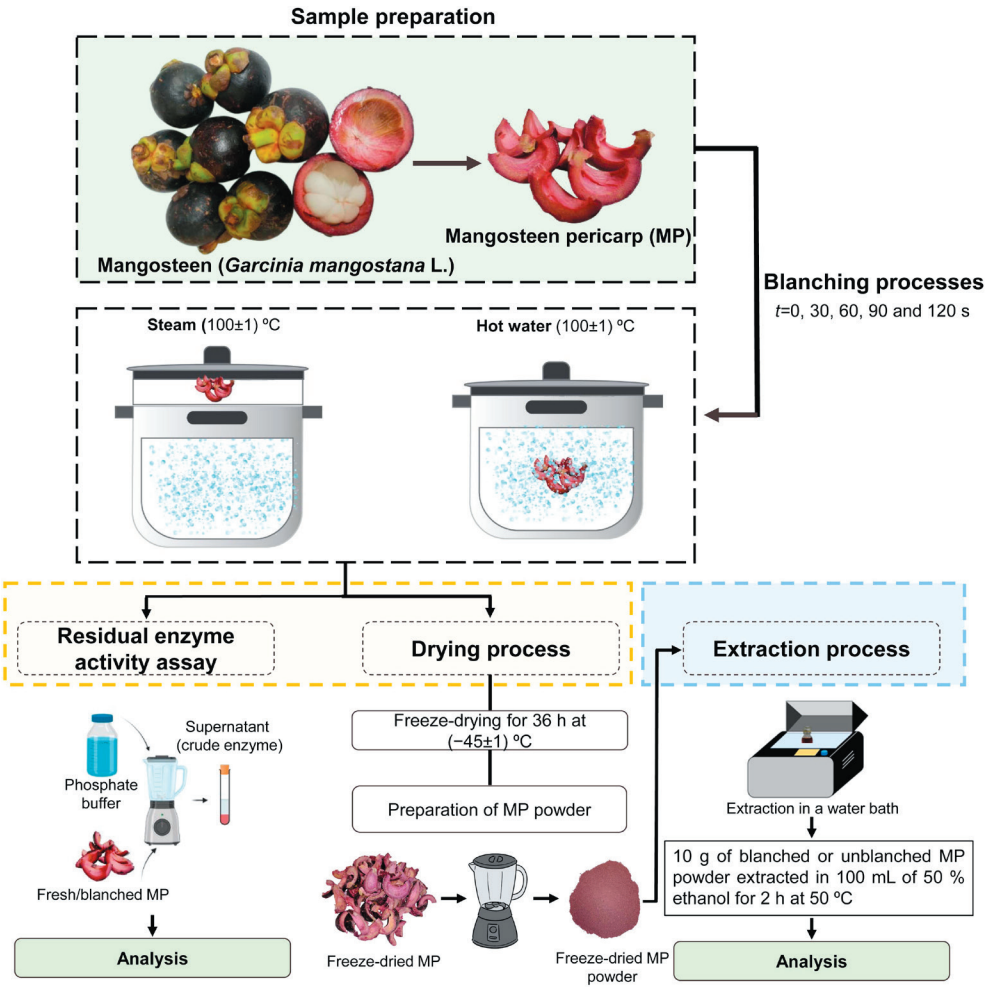

Fig. S1. Flow chart of blanching methods and analysis of mangosteen pericarp

Back to article

Table S1. Preliminary study on total monomeric anthocyanin content (TMAC) of mangosteen pericarp extracts

	Control	HW30	HW60	HW90	HW120	ST30	ST60	ST90	ST120
w(TMAC)/(mg/g)	$(1.2\pm0.1)^{e}$	$(1.56\pm0.05)^{cd}$	$(1.36\pm0.06)^{de}$	$(1.69\pm0.08)^{bc}$	$(1.5\pm0.1)^{cd}$	$(1.6\pm0.1)^{bc}$	$(1.71\pm0.04)^{bc}$	$(2.40\pm0.09)^{a}$	$(1.88\pm0.05)^{b}$

Each result is the mean value±standard deviation (N=3). Values with the same lowercase letter are not significantly different ($p>0.05$). HW30, 60, 90 and 120=hot water blanching during t=30, 60, 90 and 120 s, ST30, 60, 90 and 120=steam blanching during t=30, 60, 90 and 120 s, Control=no blanching

Back to article

Table S2. Composition of compounds in the fresh, hot water- and steam-blanched extracts of mangosteen pericarp detected by LC-MS

No.	t_R/min	Compound name	*w*(compound)/(g/100 g)		
			Fresh	Hot water	Steam
Positive mode					
1.	13.99	Procyanidin trimer	4.68	7.74	10.09
2.	16.56	Procyanidin dimer	20.78	28.25	14.55
3.	17.26	Cyanidin-3-*O*-sophoroside	10.34	3.77	14.64
4.	18.83	Procyanidin trimer	11.01	21.03	20.28
5.	21.37	Catechin	14.60	12.22	17.34
6.	27.40	Procyanidin dimer	15.36	9.75	11.06
7.	29.32	Cyanidin-3-*O*-glucoside	0.12	0.11	1.45
8.	32.56	Dihydroquercetin	15.65	11.96	7.60
Negative mode					
1.	5.39	Quinic acid	6.60	3.30	3.16
2.	10.21	β-mangostin	4.58	2.45	4.02
3.	10.82	α-mangostin	4.74	2.04	3.18
4.	14.68	A-type Proanthocyanidin	12.12	7.31	11.01
5.	17.13	Procyanidin B1	21.64	29.43	22.33
6.	19.49	Procyanidin C1	21.57	11.56	20.63
7.	22.04	(–)-Epicatechin	28.49	41.03	26.62
8.	28.08	Procyanidin B1	0.26	2.89	9.05