

Supplementary material

Polyphenols from *Prunus mume*: extraction, purification and anticancer activity

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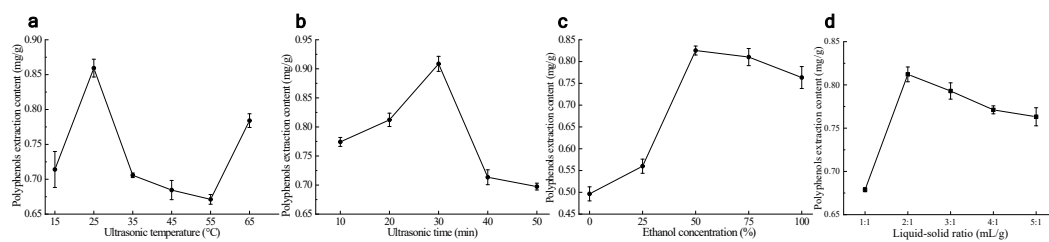



Fig. S1 Effect on the extraction of polyphenols from *Prunus mume*: a. ultrasonic temperature; b. ultrasonic time; c. ethanol concentration; d. liquid-solid ratio.

Table S1 Response surface design arrangement and experimental results

Number	Level				Extract content / (mg/g)
	A/°C	B/min	C/%	D/(mL/mg)	
1	25	30	75	3	0.4325
2	35	30	50	3	0.4024
3	25	20	25	2	0.3961
4	25	20	50	1	0.3493
5	35	30	25	2	0.3796
6	35	30	75	2	0.4300
7	25	30	50	2	0.5006
8	35	30	50	1	0.3459
9	25	30	50	2	0.5057
10	15	40	50	2	0.4013
11	25	20	50	3	0.3988
12	25	30	75	1	0.3617
13	15	20	50	2	0.4175
14	25	30	50	2	0.5102
15	25	40	75	2	0.4219
16	25	30	25	3	0.4014
17	25	30	50	2	0.5147
18	25	40	50	3	0.4419
19	25	20	75	2	0.4239
20	35	40	50	2	0.3800
21	15	30	50	3	0.4321
22	15	30	25	2	0.4082
23	15	30	50	1	0.3429
24	35	20	50	2	0.4139
25	25	40	50	1	0.3153
26	25	40	25	2	0.3928
27	15	30	75	2	0.4299
28	25	30	25	1	0.3519
29	25	30	50	2	0.4985

**Animal ethics proof of Nanjing Ramda
Pharmaceutical Co., LTD**

Application Date: 02/06/2022	Acceptance Number: 202206.01	Approval Number: IACUC-20220612	
Experiment Title	Efficacy test of the compound on human hepatocellular carcinoma HepG-2 cell transplanted tumor in nude mice		
Experiment Goal	To investigate the effect of the compound on human hepatocellular carcinoma HepG-2 cell transplanted tumor in nude mice		
Project Sources	Institute of Botany, Jiangsu Province and Chinese Academy of Sciences		
Project Leader	Fengyi Zhao	Tel	13701580481
Experiment Leader	Jun Feng	Tel	19962096401
Department	Research Reagents and Technical Services Department		
Animal Experimental Facility Use License No		SYXK(Su)2017-0040	
Experiment Time	12/06/2022-12/08/2022		
Animal Information	Animal Origin	Shanghai Slack Laboratory Animal Co. LTD	Fitness Certification <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes
	Variety Strain	<input type="checkbox"/> Rat _____ <input checked="" type="checkbox"/> Mouse <u>BALB/C</u> <u>nude mice</u> <input type="checkbox"/> Other _____	Level <input type="checkbox"/> Clean <input checked="" type="checkbox"/> SPF <input type="checkbox"/> Other
Other Information	Animal Euthanasia Methods: CO ₂ anesthesia		
	Audit result: <div style="display: flex; justify-content: space-around; align-items: center;">  <div style="text-align: right;"> <p><i>Jun Feng</i></p> <p>Date: 2022.8.15</p> </div> </div>		