Electronic Supplementary Material (ESI) for RSC Advances.

Supporting Information

Enhanced exopolysaccharides yield and antioxidant activities of *Schizophyllum commune* fermented products by addition of Radix Puerariae

Yongfei Deng [a, b, c], Qian Huang [c], Lu Hu [b], Tao Liu [a], Bisheng Zheng [d], Dengjun Lu [*a], Chaowan Guo [*b], Lin Zhou [*c, b]

*** Corresponding Author**

E-mail: zhoulin@gdpu.edu.cn

E-mail: dj6688@126.com

E-mail: guo.chaowan@marubi.cn

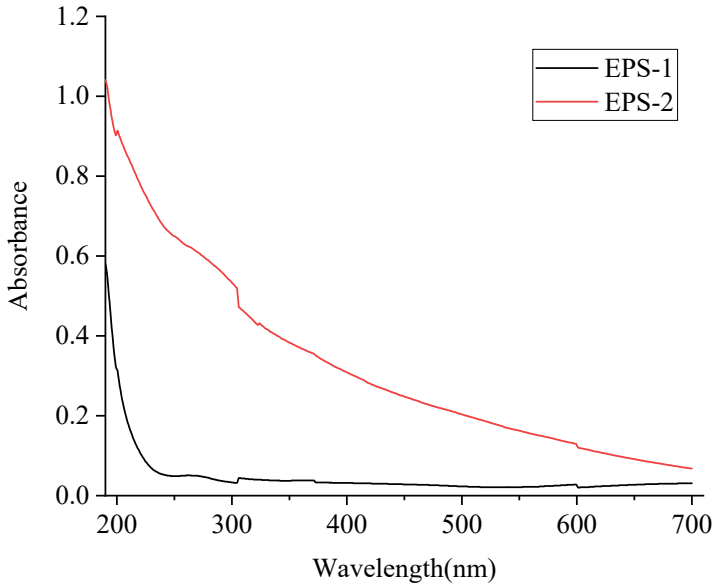

Fig.S1. UV spectrum of EPS-1 and EPS-2.

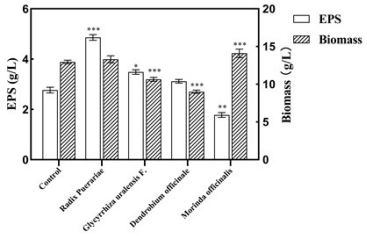

Fig.S2. Effect of Different Chinese Medicines on *Schizophyllum commune* EPS yield and Biomass

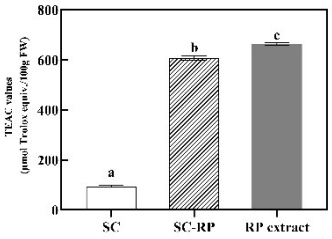

Fig.S3. ABTS radical scavenging activities of fermented supernatants cultured from RP-supplemented medium (SC-RP) or regular medium (SC) and RP extracts

Table S1 *P*-value of Pearson correlation coefficient between bioactive ingredients in SC-RP and antioxidant activity

	Total phenolics	Total flavonoids	SPG	Total protein	Fenton system	TEAC values	FRAP values	ORAC values
Total phenolic	0.000	0.001	0.011	0.005	0.296	0.012**	0.035*	0.035*
Total flavonoids		0.000	0.002	0.001	0.194	0.010**	0.066	0.029*
SPG			0.000	0.000	0.106	0.026**	0.109	0.060
Total protein				0.000	0.143	0.021**	0.088	0.050
Fenton system					0.000	0.245	0.574	0.294
TEAC values						0.000	0.061	0.010
FRAP values							0.000	0.164
ORAC values								0.000

a. *Significant at $0.01<p<0.05$, **significant at $p<0.01$, ***significant at $p<0.001$