



Figure S1. color reaction of the polyphenol-producing endophytic fungi

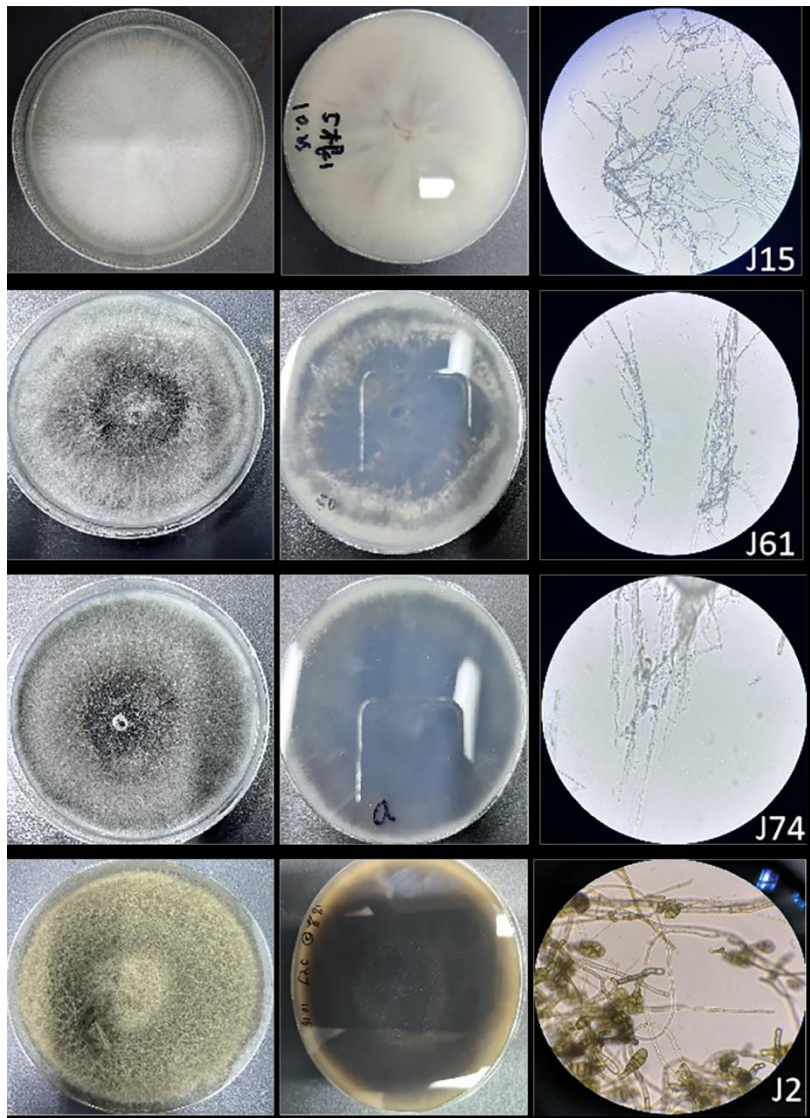


Figure S2. Microscopic and morphological characteristics images of endophytic fungi isolated from *Fagopyrum dibotrys*

Table S1. Morphological observation of endophytic fungi isolated from *Fagopyrum dibotrys*

Endophyte	colour	Morphology
J2	green	mycelium is green and the colony is convex and dry.
J15	White	mycelium is white and the colony is flat and dry.
J61	gray and white	air mycelia is brown, and the endophytic mycelia is black in center and white in margin.
J74	gray and black	air mycelium is grey and the colonies are flat and dry.

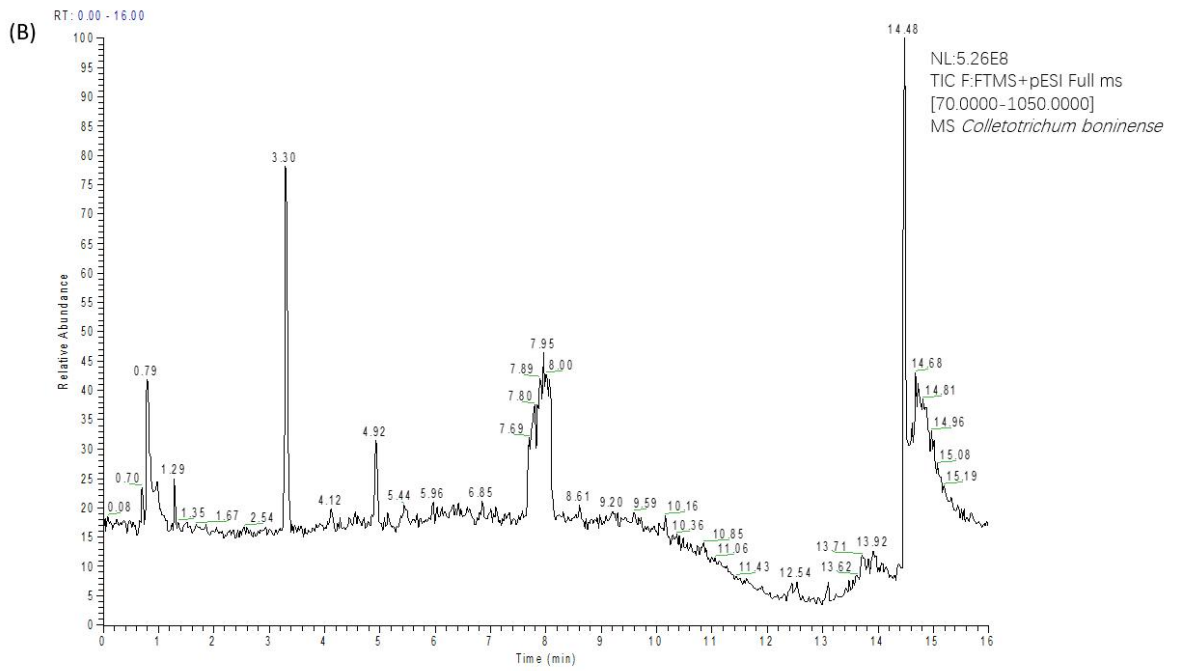
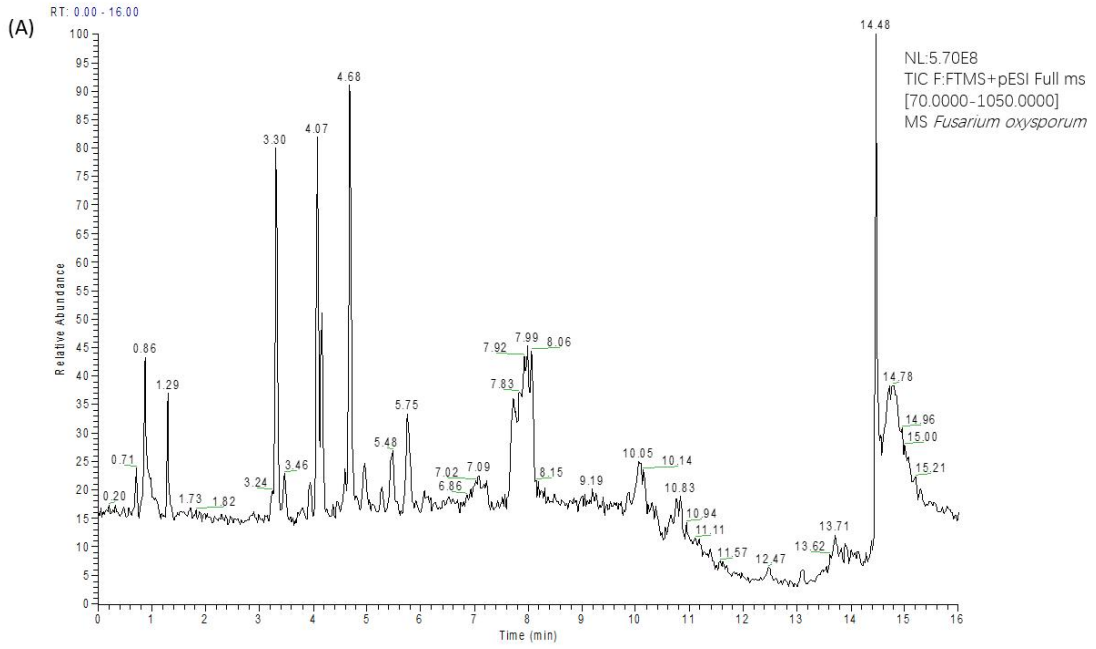
Table S2 Assessment of TPC and antioxidant activity of J2, J15, J61, J74 extracts.

Extracts	TPC (mg GAE/g of extract)	IC ₅₀ (mg/mL)			
		ABTS radical	Hydroxyl radical	DPPH radical	Superoxide anion radical
J2					
Vc	-	-	0.07 ± 0.05 _c	-	0.26 ± 0.02 _b
Ethyl acetate	135.25 ± 0.33 _a	0.049 ± 0.005 _c	0.08 ± 0.001 _c	0.02048 ± 0.009 _c	0.28 ± 0.005 _b
n-Butanol	62.18 ± 5.41 _b	0.034 ± 0.002 _c	0.96 ± 0.02 _b	0.14368 ± 0.004 _b	1.54 ± 0.004 _a
Chlorom	42.72 ± 4.39 _c	1.568 ± 0.002 _a	0.15 ± 0.06 _c	0.3795 ± 0.0025 _b	nd
Petroleum ether	26.49 ± 7.25 _d	0.224 ± 0.003 _b	1.47 ± 0.22 _a	0.79028 ± 0.004 _a	nd
J15					
Vc	-	-	0.07 ± 0.05 _d	-	0.26 ± 0.02 _b
Ethyl acetate	92.74 ± 4.68 _a	0.051 ± 0.0002 _d	0.25 ± 0.006 _c	0.08 ± 0.001 _b	0.65 ± 0.041 _a
n-Butanol	67.39 ± 6.81 _b	0.406 ± 0.006 _c	0.54 ± 0.03 _b	0.16 ± 0.021 _b	nd
Chloro	14.11 ± 5.47 _c	1.751 ± 0.0001 _a	0.19 ± 0.025 _c	nd	nd
Petroleum ether	53.96 ± 4.31 _b	0.767 ± 0.001 _b	0.98 ± 0.021 _a	1.25 ± 0.004 _a	nd
J74					
Vc	-	-	0.07 ± 0.05 _d	-	0.26 ± 0.02 _b
n-Butanol	97.76 ± 4.31 _a	0.098 ± 0.001 _b	0.7 ± 0.005 _b	0.08 ± 0.005 _c	0.66 ± 0.039 _b
Ethyl acetate	65.80 ± 7.25 _b	0.596 ± 0.011 _a	0.51 ± 0.047 _c	0.61 ± 0.003 _b	1.56 ± 0.028 _a
Chlorom	52.89 ± 5.11 _b	0.058 ± 0.015 _b	0.33 ± 0.035 _c	nd	nd
Petroleum ether	13.75 ± 5.25 _c	0.847 ± 0.002 _a	0.84 ± 0.004 _a	1.62 ± 0.001 _a	nd
J61					
Vc	-	-	0.07 ± 0.05 _d	-	0.26 ± 0.02 _b
Ethyl acetate	129.64 ±	0.073 ±	0.57 ±	0.01 ± 0.032 _c	0.23 ±

	4.28 _a	0.003 _c	0.005 _b		0.006 _b
n-Butanol	68.90 ±	0.089 ±	0.43 ±	0.06 ± 0.012 _c	1.24 ±
	5.81 _b	0.013 _c	0.038 _b		0.043 _a
Chlorom	47.40 ±	0.672 ±	0.25 ±	0.15 ± 0.004 _c	1.89 ±
	3.39 _c	0.012 _b	0.007 _c		0.024 _a
Petroleum	28.96 ±	1.18 ±	0.77 ±	0.32 ± 0.005 _a	nd
ether	6.55 _d	0.013 _a	0.003 _a		

a–d: significant differences between different groups ($p < 0.05$).

nd, not detected (result higher 3.00 mg/mL).



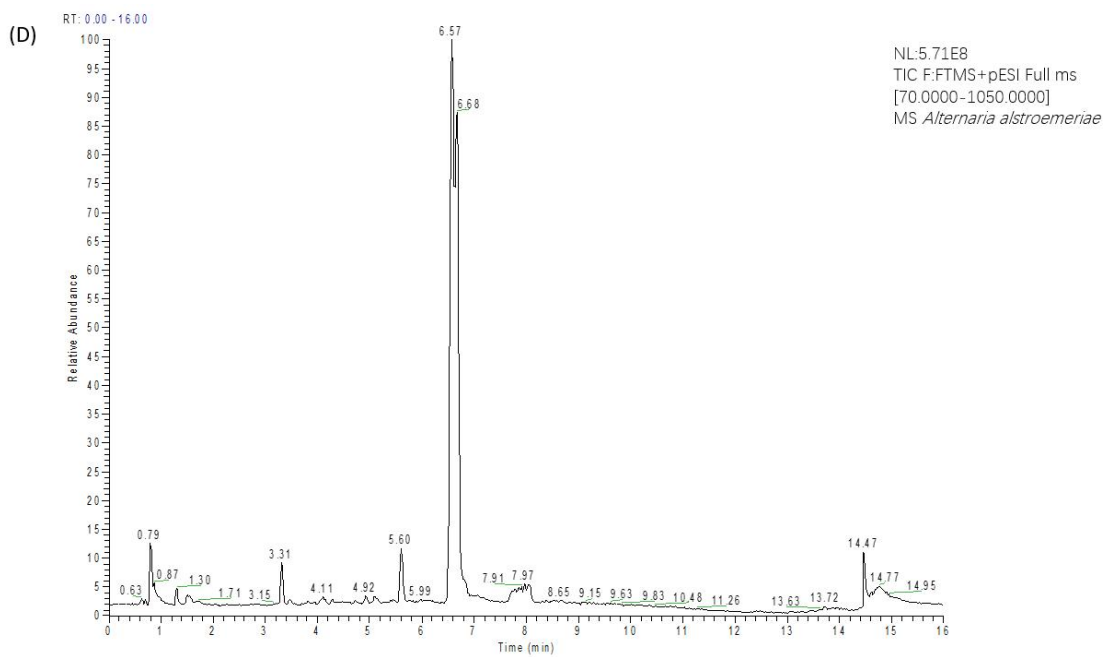
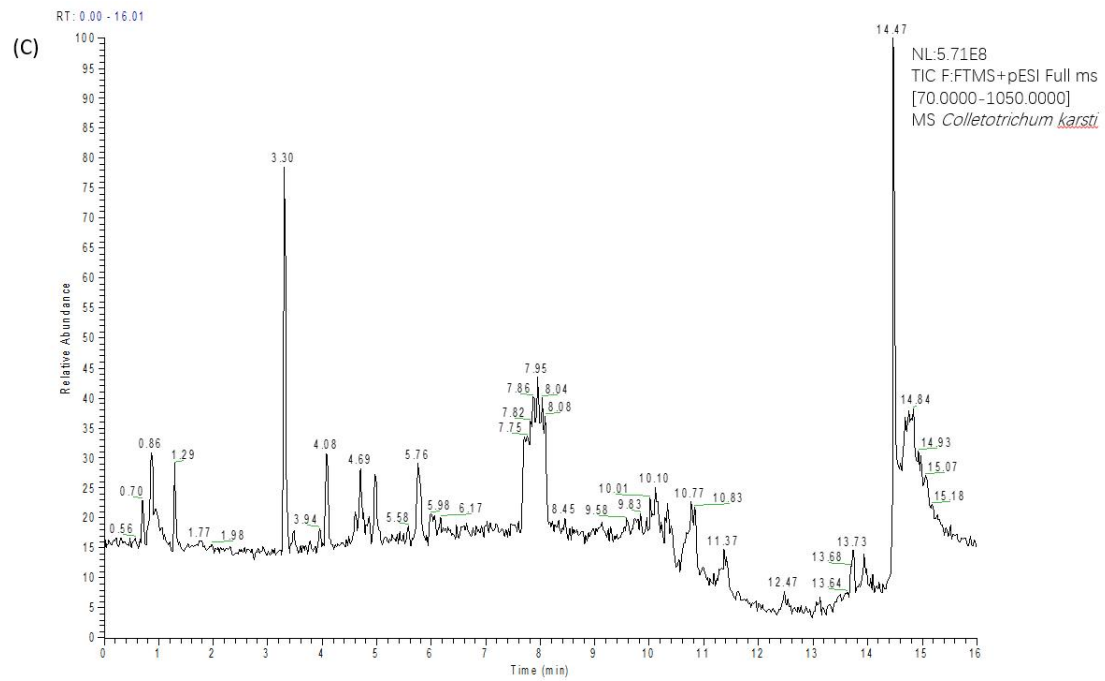


Figure S3. LC/MS chromatogram of fungal extracts. **(A)** LC/MS chromatogram of *Fusarium oxysporum* extracts; **(B)** LC/MS chromatogram of *Colletotrichum boninense* extracts; **(C)** LC/MS chromatogram of *Colletotrichum karsti* extracts; **(D)** LC/MS chromatogram of *Alternaria astroemeriae* extracts