

Fig. S1 The GC-MS total ion stream chromatogram of S-1 segment of petroleum ether of *Alternaria oxytropis*



Fig. S2 The GC-MS total ion stream chromatogram of S-2 segment of petroleum ether of *Alternaria oxytropis*



Fig. S3 The GC-MS total ion stream chromatogram of S-3 segment of petroleum ether of *Alternaria oxytropis*

Fig. S4 The GC-MS total ion stream chromatogram of L-1 segment of chloroform phase of *Alternaria oxytropis*



Fig. S5 The GC-MS total ion stream chromatogram of L-2 segment of chloroform phase of *Alternaria oxytropis*



Fig. S6 The GC-MS total ion stream chromatogram of L-3 segment of chloroform phase of *Alternaria oxytropis*



Fig. S7 The GC-MS total ion stream chromatogram of Y-1 segment of ethyl acetate of *Alternaria oxytropis*



Fig.S8 The GC-MS total ion stream chromatogram of Y-2 segment of ethyl acetate of *Alternaria oxytropis*



Fig. S9 The GC-MS total ion stream chromatogram of Y-3 segment of ethyl acetate of *Alternaria oxytropis*

Fig. S10 Mass spectra of typical composition of JZ1 column chromatography from *Alternaria oxytropis* fermentation broth



Fig. S11 Mass spectra of typical composition of JZ2 column chromatography from *Alternaria oxytropis* fermentation broth



Fig. S12 Mass spectra of typical composition of JZ3 column chromatography from *Alternaria oxytropis* fermentation broth

Fig. S13 Mass spectra of typical composition of JZ4 column chromatography from *Alternaria oxytropis* fermentation broth



Fig. S14 Mass spectra of typical composition of JZ5 column chromatography after acetylated from *Alternaria oxytropis* fermentation broth(A)



Fig.S15 Mass spectra of typical composition of JZ5 column chromatography after acetylated from *Alternaria oxytropis* fermentation broth(B)



Fig. S16 Mass spectra of typical composition of JZ5 column chromatography after acetylated from *Alternaria oxytropis* fermentation broth(C)

