



Podophyllotoxin is used as a main precursor in the preparation of valuable anti-cancer drugs. The present study describes the production of podophyllotoxin from locally isolated endophytic fungi. For the production of podophyllotoxin, 12 pure strains of endophytic fungi were isolated from *Podophyllum* plant tissues and screened through submerged fermentation. The results showed that only one strain (PS₆) was positive for podophyllotoxin. This strain (PS₆) was identified as *Fusarium sp.* on the basis of its morphological characteristics and spores color. Fermentation culture conditions were optimized to enhance the yield of podophyllotoxin. The optimum yield of podophyllotoxin (20µg/ml) was obtained in sabouraud dextrose broth at 26°C, initial pH 5.5, with sucrose as carbon source and yeast extract as nitrogen source at 7th day of incubation. The yield of biomass was also enhanced up to 12mg/ml in sabouraud dextrose broth at 26°C, initial pH 6, with sucrose as stable carbon source and yeast extract as nitrogen source at 8th day of incubation.