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Abstract
Natural Cordyceps spp. contains numerous functional ingredients. The medicinal effects of Cordyceps spp. in immunoregulatory, antinflammation, antioxidant, antifatigue, hepatoprotection, renal protection, cough relief and anti-tumor effects had been found. In this study, the effect of fermented culture broth of Paecilomyces
furinosus on the growth inhibition of tumor cells A549 (Human lung carcinoma cells), HeLa (Human cervical epithelioid carcinoma cells), Hep G2 (human hepatoblastoma cells), and MCF7 (human breast adenocarcinoma Cells) were studied. The optimal medium compositions for the cultivation of Paecilomyces furinosus include 3% fructose and 0.5% yeast extract powder, and the broth has the highest
inhibition effect on the tumor cell growth for A549. Flow cytometry assay revealed that the cell cycle of broth-treated A549 was arrested at sub G1 phase. The results showed that the inhibition of the A549 cell growth resulted from the behavior of apoptosis.
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