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Abstract
Fuscoporia oblique is a medicinal fungus that grows on the white birch tree. The biological activity of Fuscoporia oblique includes the blood sugar maintenance, the blood pressure adjustment, anti tumor and the promotion of immunity.
In this study, the polysaccharides contents and antioxidant properties of water and EtOH extracts of the solid state fermentation products of Fuscoporia oblique before and after fermentation were test. The total polyphenolics test showed that the solid state fermentation product of Fuscoporia oblique possesses much higher polyphenolics activity than that before fermentation. As for the antioxidant properties, the differences between products before fermentation and after fermentation were unobvious. About the contents of polysaccharides, the extracted polysaccharides proportions before fermentation and after fermentation were 1.3 % and 18.3 %, respectively.
In animal experimentation, the solid state fermentation products of Fuscoporia oblique were used to fed mice in the doses of 200 mg/day/kg of body weight、600 mg/day/kg of body weight, and mice fed with saline were taken as the control group. It showed no differences in the body weights and no obvious physiological changes. In tumor inhibition test, mice induced with Lewis lung carcinoma were fed with the products in the doses of 200 mg/day/kg of body weight、600 mg/day/kg of body weight. The tumor suppression rates were 42.35 % and 36.97 %, respectively, compared with the control. In preventive health test, the tumor were 14.79% and 51.03%, respectively. The tumor suppression rates volumes promoted 14%, equally, compare with the tumor inhibition test. In other words, the solid state fermentation products of Fuscoporia oblique had obvious effects on the inhibition of tumor growth.
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