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Author Yan-Chi Lin
Author's Email Address No Public.
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Abstract
The fruiting body of Antrodia camphorata is well known in Taiwan as “niu-chang chih” or “jang-jy”. The fruiting body of Antrodia camphorata has been used for the treatment of food and drug intoxication, diarrhea, abdominal pain, hypertension, skin itching and anti-tumor. The objective of this research is to identify the bioactive compounds in Antrodia camphorata’s product from solid-state fermentation with anti-tumor and anti-oxidant activities. By treating A549 cells (a human lungs cancer cells) and HCT-8 cells (a human large intestine cancer cells) with crude extracts of product of Antrodia camphorata for 48 hrs. the ethyl acetate extract was found to possess the highest anti-tumor activities with the IC50 values of 100μg/mL and 65μg/mL, respectively. The ethyl acetate extract was further separated by running through a silica gel column and six fractions were obtained. The active ingredient in F4 was purified by preparative HPLC and was structurally identified by MS, NMR and IR. The molecular formula and weight of this compound were C10H12O4 and 196, respectively.
Advisory Committee - advisor

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