

Sahmyook University

Lonicerae Folium et Caulis, the folium and stem of *Lonicera japonica* Thunb., has been used as diuretic, stomachic, antipyretic, analgesic and anti-inflammatory agent in Korea. We isolated a main iridoid, loganin which has some important biological effects from the folium and stem of this plant. Generally, it is known that iridoid compounds have variable contents by the collecting time and a part of plant. The content of main compound is important to evaluate its quality. In order to evaluate the quality of *Lonicerae Folium et Caulis*, the method of quantitative determination of loganin as a reference standard compound has been developed. We have collected it from Sahmyook University campus in June, Aug. and Nov. and were analyzed with HPLC using the H₂O : MeOH (7:3). The average content of loganin from *Lonicerae Folium et Caulis* is 0.00395% in leaves of Jun., 0.00428% in Aug. and 0.00424% in Nov. and 0.00244% in stems of Jun., 0.00336% in Aug. and 0.00469% in Nov..

[PD3-6] [2003-10-11 09:00 - 12:30 / Grand Ballroom Pre-function]

The urinary effect of *Polygoni cuspidati* Radix on rats

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Polygoni cuspidatum has been used as treatments of dermatitis, inflammation and hyperlipidemia, and diuretic in folk medicine. In order to evaluate the urinary effect of *Polygoni cuspidati* Radix, its MeOH extract was administered in rats by in vivo test. We measured urine volume, chemical parameters, and electrolytes in serum and urine of the rats. The results showed that *Polygoni cuspidati* Radix MeOH extract had urinary volume increase and normal level parameters in rats.

[PD3-7] [2003-10-11 09:00 - 12:30 / Grand Ballroom Pre-function]

The Inhibitory Effects of the Methanolic Fraction of *Pueraria Radix* on Hydrogen peroxide-induced Lipid peroxidation and Cadmium-induced cytotoxicity

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The effects of the methanol subfraction of *Pueraria radix* on hydrogen peroxide-induced lipid peroxidation and Cd-induced cytotoxicity were investigated in NIH3T3 fibroblasts. After the methanol subfraction treatment, the content of MDA induced by 600 μ M H₂O₂ significantly decreased in proportion to the subfraction concentrations as well as 50 μ M CdCl₂-induced cytotoxicity. Especially, 200 μ g/ml concentration of methanol subfraction was strongly shown inhibition of lipid peroxidation and detoxification of Cd. These results suggest that the methanol subfraction of *Pueraria radix* retains a potential antioxidant and protective effect against cadmium.

[PD3-8] [2003-10-11 09:00 - 12:30 / Grand Ballroom Pre-function]

Antidiabetic activity of Cultivated *Cordyceps pruinosa*

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Cordyceps species has been used as antiinflammatory, antitoxic, diuretic in folk remedies. Recent research has been reported the effect of anticancer, antidiabetic, antimutagenic, antilipid peroxidation. We examined the antidiabetic activity of cultivated *Cordyceps pruinosa* on streptozotocin- induced diabetic rats. The blood glucose level was recovered by treatment with *Cordyceps pruinosa* ethanol extract. The contents of GPT, total cholesterol and xanthine oxidase, glutathione peroxidase, catalase activities of the cytosol were significantly decreased as compared to the diabetic group. Also, The lipid peroxidation of the hepatic mitochondria and microsome was significantly decreased by administration of its ethanol extract. These results suggest that *Cordyceps pruinosa* showed antidiabetic activity.