

Corni Fructus(Cornaceae), Loniceræ Flos(Caprifoliaceae), Gentianæ Scabrae Radix, Swertiae Herba (Gentianaceae) and Loniceræ Flos, Corni Fructus over 5 years. A quantitative analysis of loganin using HPLC method showed that this results in 6 samples collected from Kyung-Dong market in Seoul.

[PD2-2] [04/19/2002 (Fri) 10:00 - 13:00 / Hall E]

Evaluation of Oriental Bezoar Quality

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Oriental Bezoar is a stone formed in the gall sac of *Bos Taurus* Linne var. *Domesticus* Gmelin (*Bovidae*). Korea has imported it from some other countries such as Brazil, Argentina, Australia, Japan, etc. And most of them have been packaged to the Whole and the Broken types at that moment. It is widely used as a traditional medicine for the treatment of frenzy delirium and sold at a high price in oriental areas. So fake or inferior goods could be circulated.

In order to guarantee the quality of Oriental Bezoar, 318 samples imported from June 1998 to May 2001 were tested on specification in K.P. The 12 samples were not passed, which the 10 samples of Broken type were failed on the ash test, one sample of Whole and Broken type on the ash and the assay test, respectively, and another on the discrimination because of mold. Also content of bonded bilirubin in Oriental Bezoar was quantified with the average of 27.91 ± 7.73 % in samples of passed the test and the ash content was 7.39 ± 0.65 % (n=306). So the assay level of bonded bilirubin of Oriental Bezoar on specification might be evaluated to be higher than now.

[PD2-3] [04/19/2002 (Fri) 10:00 - 13:00 / Hall E]

Chemical Components of H₂O and MeOH extracts from *Cordyceps militaris*

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Cordyceps militaris(CM) has been used as a tonics and herbal medicine traditionally. Recent research has shown the effect of glucose metabolism, cancer, endocrine and sexual functions of CM. Phytochemical examination of CM which is cultivated in Korea isolated cordycepin along with four similar amino acids from H₂O soluble fraction and three lipophilic components as fatty acids and phthalide from MeOH soluble fraction of CM. We also carried out quantitative determination of cordycepin by High Performance Liquid Chromatography. The results showed that the contents of cordycepin is 0.08853% in CM.

[PD2-4] [04/19/2002 (Fri) 10:00 - 13:00 / Hall E]

Two Novel Nucleosides from a Brown Alga *Sargassum fulvellum*

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In the course of our researches for bioactive compounds from Korean marine algae, the methanolic extract of a brown alga in genus *Sargassum* (Fucales, Phaeophyceae) off Cheju Island, Korea was partitioned between *n*-BuOH and H₂O. The aqueous fraction was subjected to ODS flash, Sephadex LH-20, and prep. TLC to afford adenosine and two novel *N*-methylaminosugar nucleosides. The formula molecular was established as C₁₁H₁₃N₆O₃ on the basis of the HRESI mass and ¹³C NMR spectra. Their structures were

determined by the interpretation of spectroscopic data obtained from various NMR techniques. A variety of bioassay for them are in progress.

[PD2-5] [04/19/2002 (Fri) 10:00 - 13:00 / Hall E]

A New Uracil Derivative and A New Acylglycosyl Sterol from *Quisqualis Fructus*

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Quisqualis Fructus is a Korean traditional medicine to treat ascariasis.¹⁾ Quisqualic acid and trigonelline were reported from *Quisqualis Fructus*.²⁾ In the course of our searching for topoisomerase I inhibitor from Korean traditional medicine, *Quisqualis Fructus* exhibited moderate activity. The research of this source led to isolate a new uracil derivative and a new acylglycosyl sterol together with five known compounds. On the basis of spectroscopic data, their structures have been elucidated as 1-(2-amino-1,4-dioxan-3-yl)-uracil, 3-O-[6-O-(8-octadecenoyl)-glycosyl] epicodisterol, 3-amino-acrylamide, pyridylglycine, epicodisterol, betulinic acid and ursolic acid methyl ester. The topoisomerase I inhibitory effect of these compounds are under study.

1) Shanghai Science and Technologic Publisher and Shougakukan, The Dictionary of Chinese Drugs, Shougakukan, Tokyo, pp.1035-1037 (1985)

2) Takemoto, T., Takagi, N. Nakajima, T. and Koike, K., *Yakugaku Zasshi*, 95 (2), 176-179 (1975)

[PD2-6] [04/19/2002 (Fri) 10:00 - 13:00 / Hall E]

Antioxidative activity of *Acanthopanax chiisanensis Fructus*

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Acanthopanax spp. are one of the traditional tonic agents. They have been used as analgesics, stimulant of immune system and replenishment of body functions. In order to estimate the antioxidative activity of *Acanthopanax chiisanensis Fructus*, we measured anti-lipid peroxidative efficacy on human low density lipoprotein (LDL) with TBARS (2-thiobarbituric acid) assay from its MeOH extract. And we tested superoxide scavenging activity by Free radical scavenging assay. Superoxide radicals are generated in a phenazine methosulfate (PMS)-beta-nicotinamide adenine dinucleotide (reduced form, NADH) system by oxidation of NADH and assayed by the reduction of nitroblue tetrazolium (NBT).

[PD2-7] [04/19/2002 (Fri) 10:00 - 13:00 / Hall E]

Antiinflammatory and Antinociceptive Principles of the *Acanthopanax senticosus* Stem Bark

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MeOH extract of the stem bark of *Acanthopanax senticosus* (Araliaceae) was fractionated to test anti-inflammatory in the rat induced by carrageenan and Freund's complete adjuvant reagent (FCA),