

(LPS). It was shown that the whole essential oil inhibited the PGE₂ production in concentration dependent manner and these effects on NO and PGE₂ production shown by the essential oil can be attributed to one of the major components, α -terpinene.

[PD2-6] [04/20/2001 (Fri) 13:30 – 14:30 / Hall 4]

Establishment of an ELISA for the Determination of IH-901 Using the Antibody against Ginsenoside Re-Bovine Serum Albumin conjugate

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A specific enzyme-linked immunosorbent assay (ELISA) for the determination of IH-901, a major and active metabolite of ginsenoside Rb₁, was explored.

Recently, we reported that the production of IH-901-specific antibody (Ab) from rabbits immunized with ginsenoside Re (G-Re)-bovine serum albumin conjugate. Using the polyclonal Ab, a competitive indirect ELISA was established. Four criteria were set to optimize the ELISA procedures: 1) Coating antigen concentration; 2) Primary Ab dilution; 3) Dilution of peroxidase-labeled secondary Ab; 4) Durations of primary and secondary Ab incubation time.

The measuring range of the assay extended from 0.5 ng/well to 250 ng/well. The Abs cross-reacted with some protopanaxatriol-type ginsenosides, such as G-F₁, G-Re, and G-Rg₁. However, they exhibited minor cross-reactivities with G-Rb₁ (0.3%), protopanaxadiol (0.04%) and other ginsenosides tested (G-Rh₁: 1.5%; G-Rh₂: 0.1%). The ELISA method can be a very useful tool for the pharmacokinetic study of IH-901 because of its high sensitivity and specificity.

[PD2-7] [04/20/2001 (Fri) 13:30 – 14:30 / Hall 4]

Isolation of soya-cerebroside I from the roots of *Trichosanthes kirilowii*

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In addition to known cucurbitacines, a glucosphingosine type cerebroside and amino acids were isolated from the roots of *Trichosanthes kirilowii*. The structure of cerebroside was determined as soya-cerebroside I by means of spectroscopic methods. Fifteen amino acids were identified as aspartic acid, glutamic acid, serine, glycine, histidine, citrulline, threonine, alanine, proline, tyrosine, valine, isoleucine, leucine, phenylalanine and tryptophan, among which the major components such as citrulline, phenylalanine, leucine/isoleucine and valine were isolated.

[PD2-8] [04/20/2001 (Fri) 13:30 – 14:30 / Hall 4]

Additional antioxidative saponins from the fruits of *Ternstroemia japonica* Thunberg

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