

hypophysectomized rats and the pattern of its efficacy (body weight gain and growth plate width) was dose-dependent.

[PE1-26] [10/18/2002 (Fri) 13:30 - 16:30 / Hall C]

Preparation of mono-PEGylated interferon alpha-2a and its properties

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Recombinant interferon alpha is widely used for the treatment of diseases including chronic hepatitis C. However, it has drawbacks such as relatively short serum half-life and rapid clearance like other therapeutic proteins. Using PEGylation which is one of the well-established methods to fulfill the requirements of a long-lasting form of protein, we prepared mono-PEG modified interferon alpha-2a in which polyethylene glycol moiety was covalently attached to the amino groups of interferon alpha-2a. Monopegylated interferon alpha-2a was purified from conjugation reaction mixture employing only one chromatography step. The purity was over 95% by SDS-PAGE and high performance liquid chromatography. Physicochemical and biological characterization on pegylated interferon alpha-2a was also performed. N-terminal amino acid sequencing, analysis on the amino acid composition and circular dichroism spectrometry indicated that pegylated interferon alpha maintained the same primary and secondary structure as the unmodified interferon alpha protein. We also identified that it showed the intrinsic antiviral activity of interferon alpha by cytopathic effect (CPE) assay.

[PE1-27] [10/18/2002 (Fri) 13:30 - 16:30 / Hall C]

A comparative study of pharmacopoeia between South Korea and North Korea(I)

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With the Sunshine policy, exchange of goods and cultures inter Korea is broaden and expectancy of reunification is getting higher. Especially, medical supplies and medicines is one of the biggest parts in the exchanges. So, need for preparing new medical administration system for reunification is needed. We are going to compare inter Korea drug administration system in medical services. In this year, we started with the comparing pharmacopoeia between South and North Korea. Two pharmacopoeias have been developed in different direction and have many differences in the nomenclature and structure of that. In this thesis, we compared General notices, General rules for preparations and crude drugs, Monographs, General tests, Processes & Apparatus.

Poster Presentations - Field E2. Pharmacokinetics

[PE2-1] [10/18/2002 (Fri) 13:30 - 16:30 / Hall C]

Determination of enalapril in human blood by high-performance liquid chromatography mass