

P49 An isolation of the active component of *Carthamus tinctorius* L. Semen and the evaluation of its hepato-protective effect

Jeongsuk Jeong^o , Choonsik Jeong and Kihwa Jung

College of Pharmacy, College of Pharmacy, Ssangmun-dong,
Dobong-ku, Seoul 132-714, Korea

We previously reported the hepato-protective effect of butanol soluble fraction of methanolic extract of *Carthamus tinctorius* L. Semen on carbon tetrachloride induced hepatotoxicity. In this study, the active component from the butanol soluble fraction was isolated by column chromatographic separation using Silica gel and Sephadex LH-20 and identified by spectroscopic methods such as Mass, ¹H-NMR and ¹³C-NMR. The hepato-protective effect of the isolated active component on the CCl₄-induced liver damaged rats has been evaluated by performing blood chemical analysis and biotransformational enzyme analysis.

In the active component treated group the plasma levels of ALT, AST, ALP, bilirubin, cholesterol, triglyceride and malonyldealdehyde have been decreased while the levels of albumin, total protein and SOD activities in plasma have been increased.

Based on our observations we may propose that the buthanol soluble fractions of *Carthamus tinctorius* L. Semen has some hepato-protective effects.