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**Effects of red-ginseng extract treatment on the serum of TCDD-treated rats in H4IIE-luc bioassay**

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We investigated the effects of red-ginseng extract administration on the serum of 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD) treated rats. In this study, rats were exposed to TCDD, red-ginseng extract and TCDD/red-ginseng extract (25g/kg, 100mg/kg and 25g/kg + 100mg/kg body weight, single i.p administration, respectively).

In 1, 2, 5, 16 and 32 days after administration, serums were collected by cardiac puncture. The RLUs (relative light units) of samples were determined in H4IIE-luc bioassay. The group of TCDD/red-ginseng extract showed decreasing trend during 1 - 32 days, but the group of TCDD showed maximum in 2 days and then decrease. In 2 days after treatment, the %-TCDD-Max. of the TCDD/red-ginseng extract group was 2.3-fold lower than TCDD group. This result indicates that red-ginseng extract has the effects of reduction on TCDD toxicity in 2 days after treatment.

**Keyword** : 2,3,7,8-tetrachlorodibenzo-p-dioxin(TCDD) red-ginseng; H4IIE-luc bioassay