

[P-93]**A 90-day Repeated Dose Toxicity Study of Scrophularia Root in Rats**

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The root of *Scrophularia buergeriana* Miquel (*Scrophularia* root) has been used as an oriental medicine ingredient to treat fever, swelling, pharyngitis, neuritis, and laryngitis. This study was performed to determine toxicity of *Scrophularia* root for a period of 90 consecutive days in Sprague Dawley (SD) rats and to evaluate safety for the *Scrophularia* root as food material. On the preliminary test (14-day repeated dose toxicity test) to determine the adequate dosage of *Scrophularia* root extract powder, the test item was orally administered to male and female SD rats at the dosage of 0, 250, 500 and 1,000mg/kg/day. Our studies showed that, there was no treatment-related toxicity founded at the high concentration level such as 1,000mg/kg/day. Therefore, the dosage for 90-day injected toxicity was established as 0, 250, 500 and 1,000mg/kg/day. There was no sign of treatment-related change on the body weight, food consumption level and hematological finding. Decreases in relative liver weight were observed in both male and female rats administered *Scrophularia* root extract by gavage. However, there was no sign of histopathological abnormalities. There was no treatment-related findings in the scheduled necropsy or the histopathological examinations. From these findings, safety of the *Scrophularia* root has remain unclear base on our findings.

Keyword: *Scrophularia* rot, 90-day repeated dose toxicity