

**Study of acute and 28 days repeated oral toxicity of Siddha formulae
Seenthilchooranam in Wistar albino rat**

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Abstract

Seenthil Chooranam is one of the traditional *Siddha* formulae used in various kinds of diseases in *Siddha* system of medicine. The test drug *Seenthil Chooranam* (*Chooranam*-one of the 32 types of *internal* medicine), mentioned in classical *Siddha* text *Agasthiyar Paripuranam* – 400, is used for *Megam* (diabetic mellitus), *Eelai* (tuberculosis), *Kasam* (cough), *Elaipu* (bronchial asthma), *Erandavayu* (scrotal swelling). The ingredients of this formulae include *Seenthil* (*Tinospora cordifolia*), *Karisalai* (*Eclipta Alba*), and Earthworm (*Eudriluseugeniae*). The present study aimed at evaluating the safety of *Seenthil Chooranam* as per OECD Guidelines 423,407. This study focused on acute and repeated dose 28 days oral toxicity studies in wistar albino rat. In acute study, *Seenthil Chooranam* was administered orally at the dose of 2000mg/kg. b.w and animals were observed for toxic signs for a period of 14 days. In repeated dose 28 days oral toxicity study, *Seenthil Chooranam* was administered at the dose of 900mg and 1800mg/kg b.w. Mortality, toxic signs, body weight, food and water consumption, haematological, plasma biochemical parameters, gross necropsy, relative organ weights and histopathology were assessed. The results of these studies revealed that the drug *Seenthil Chooranam* did not produce any death at the dose of 2000mg/kg body weight. The LD₅₀ value is greater than 2000mg/kg body weight. Repeated dose 28 days oral toxicity study was observed without any abnormalities and No-Observed Adverse Effect Level (NOAEL) was noted. It confirms the safety of the drug which proved its utility in long term administration without any harm to the human being.

Keywords: Toxicity study, *Seenthil Chooranam*, Siddha medicine

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