

Analgesic activity, toxicity study and phytochemical screening of standardized *Cinnomomum iners* leaves methanolic extract

F. Mustaffa, J. Indurkar, S. Ismail, M. N. Mordi, S. Ramanathan, S. M. Mansor

aCentre for Drug Research, Universiti Sains Malaysia, 11800, Penang, Malaysia

ABSTRACT

Cinnomomum iners standardized leaves methanolic extract (CSLE) was subjected to analgesic, toxicity and phytochemical studies. The analgesic activity of CSLE was evaluated using formalin, hot plate and tail flick tests at doses of 100, 200 and 500 mg/kg. CSLE showed significant activity ($P < 0.05$) in the formalin model (late phase) on the rats at doses of 200 and 500 mg/kg. However, CSLE did not show activity in the hot plate and tail flick tests. The results obtained suggest that CSLE acts peripherally to relieve pain. For the toxicity study, CSLE was orally administered to the Swiss albino mice according to the Organization for Economic Co-Operation and Development (OECD) guideline 423. There was no lethality or toxic symptoms observed for all the tested doses throughout the 14-day period. Phytochemical screening of CSLE showed the presence of cardiac glycoside, flavonoid, polyphenol, saponin, sugar, tannin and terpenoid.

KEYWORDS

Analgesic . *Cinnomomum iners* . toxicity

REFERENCES

2026 Phcog.Net - All rights reserved. Published on the JrnIXPress platform.