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ACUTE ORAL TOXICITY STUDY OF METHANOLIC EXTRACT OF ALPINIA OFFICINARUM IN ALBINO WISTER RATS

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ABSTRACT:

Objective: The present study was designed to find out the effective dose of methanolic extract of *Alpinia officinarum* Hanse in female Albino Wistar rats by using OECD guideline 425.

Materials and Method: Adult female albino Wistar rat (150-200 g) were subjected to acute oral toxicity studies as per guideline (AOT no. 425) suggested by Organization for Economic Co-operation and Development (OECD) (2001). Dose of 175, 550, 1750 and 2000 mg/kg of extracts were administered orally to female Wistar rat. Rat was then observed for incidence of mortality or any sign of toxicity for 48 hrs for short term toxicity study and up to 14 days for long term toxicity study after oral dose.

Result: Based on the mortalities and clinical signs observed in all female rats dosed with 2000 mg/kg body weight the LD50 value was calculated.

Conclusion: The study confirmed that the estimated LD50 value for methanolic extract of *Alpinia Officinarum* Hanse was 2000mg/kg body.

Keywords: Acute toxicity study, *Alpinia Officinarum* Hanse, OECD-425