

Protective effect of stem bark of *Ceiba pentandra* linn. against paracetamol-induced hepatotoxicity in rats

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ABSTRACT

The present study reports protective activity of ethyl acetate fraction of methanol extract of stem bark of *Ceiba pentandra* against paracetamol-induced liver damage in rats. The ethyl acetate fraction (400 mg/kg) was administered orally to the rats with hepatotoxicity induced by paracetamol (3 gm/kg). Silymarin (100 mg/kg) was used as positive control. High performance thin layer chromatography (HPTLC) fingerprinting of ethyl acetate fraction revealed presence of its major chemical constituents. A significant ($P, 0.05$) reduction in serum enzymes GOT (ALT), aspartate aminotransferase (AST), GPT alkaline phosphatase (ALP), total bilirubin content and histopathological screening in the rats treated gave indication that ethyl acetate fraction of methanolic extract of *Ceiba pentandra* possesses hepatoprotective potential against paracetamol-induced hepatotoxicity in rats.

KEYWORDS

Ceiba pentandra . hepatoprotective . hepatotoxicity . paracetamol

REFERENCES

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