



PHYTO-CHEMICAL POTENTIAL OF *SIDA CARDIFOLIA*  
LEAVES FOR ANTINOCICEPTIVE, ANTI-INFLAMMATORY AND  
ANTIOXIDANT ACTIVITY

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**Abstract**

**Background:** To investigate the phytochemical potential of Anti-inflammatory, Antinociceptive, and Antioxidant activity of different leaves extracts of *sida cordifolia*. **Materials and Methods:** The air-dried powder materials of the *sida cordifolia* were allowed for successive extraction with the help of soxhlet apparatus by using petroleum. ether, chloroform, acetone, ethanol & water as a solvent. Anti-inflammatory activity was performed by using carrageenin-induced edema in the rat paw method. Antinociceptive activity was performed by using Mouse Writhing test and Hot Plate test. Antioxidant activity was determined through the ability of hydrogen peroxide scavenging. **Result:** The ethanolic extract (200 mg/kg) oral showed maximum anti-inflammatory activity 51.10 (maximum, % inhibition) after 2hr. The ethanolic extract (200 mg/kg) oral showed maximum % inhibition of writhing 54.94 for Writhing test and 2.00±0.02 time (sec) of jumping for Hot Plat test. The ethanolic extract of the drug showed high scavenging (57.30%) of hydrogen peroxide. **Conclusion:** On successive extraction process of aerial parts of *sida cordifolia* reported that different ethanolic extracts are more effective as Anti-inflammatory, Antinociceptive, and Antioxidant activity respectively.

**Keywords:** *Sida cordifolia*, Anti-inflammatory, Antinociceptive, Antioxidant.