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## In Vitro Antiinflamation and Antioxidant Activity of Etanol Extract of *Chromolaena odorata* L.

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## ABSTRACT

Kopasanda (Chromolaena odorata L.) is a species of plant from the Compositae family. Kopasanda can grow in forests and coastal areas, causing differences in the size of the leaves. This plant is used as a traditional medicine for treating wounds, increasing hemostasis, blood clotting, antiinflammatory activity, diuretic, and hepatotropic. The leaves contain several active compounds such as flavonoids, alkaloids, saponins, tannins, phytates, cyanogenic glycosides, and steroids. The antiinflammatory test used the protein denaturation method, while the antioxidant test used the Ferric Reducing Antioxidant Power (FRAP) method. The results of the anti-inflammatory test obtained an IC50 value of 299.719 ( $\mu$ g/ml) for forest kopasanda and 284.949 ( $\mu$ g/ml) for coastal kopasanda. The antioxidant test results obtained antioxidant activity values of 33.673 mgQE/g extract for forest kopasanda and 6.7283 mgQE/g extract for coastal kopasanda. The anti-inflammatory and antioxidant potential of forest kopasanda leaves is better than that of coastal kopasanda.

Keywords: Chromolaena odorata L., antiinflammation, antioxidant