

## ABSTRACT

### ANTIOXIDANT ACTIVITY TEST OF KRATOM LEAF EXTRACT (*Mitragyna Speciosa*) RESULTS OF DEKOKTA USING DPPH METHOD

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*Kratom leaves obtained from the island of East Kalimantan, Kapuas region, produce secondary metabolites that have the potential as antioxidants. One of the plants that contain a lot of secondary metabolites of the mitragynine alkaloid is kratom leaves. The purpose of this study was to determine the antioxidant activity found in kratom leaf dekokta extract using the DPPH method. Extraction was carried out by the DPPH method using aquadest as the solvent. This research was conducted by extracting samples of kratom leaf powder using the dekokta method to obtain the extract. The extract obtained was tested for antioxidant activity using the DPPH method using Uv-vis spectrophotometry. The results of the kratom leaf extract which was tested at a wavelength of  $\lambda$  517nm showed that the antioxidant activity of the kratom leaf extract was obtained with an IC50 linearity value of  $3.555 \pm 0.3622$  with an RSD value of 8.307% v/v. It can be concluded that there is an antioxidant activity in testing the kratom leaf extract from Dekokta.*

**Keyword :** *Mitragyna speciosa, Dekok, Antioxidants, DPPH*