

**KORELASI FLAVONOID TOTAL DENGAN AKTIVITAS  
ANTIOKSIDAN EKSTRAK DAN FRAKSI  
DAUN PURING KURA (*Codiaeum variegatum* (L.) Blume)**

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## ABSTRAK

### KORELASI FLAVONOID TOTAL DENGAN AKTIVITAS ANTIOKSIDAN EKSTRAK DAN FRAKSI DAUN PURING KURA

(*Codiaeum variegatum* (L.) Blume)

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#### **Abstrak**

Puring kura (*Codiaeum variegatum* L.) memiliki potensi sebagai antioksidan alami karena kandungan flavonoidnya yang dapat menetralkan radikal bebas. Penelitian ini bertujuan untuk menentukan nilai kesetaraan flavonoid total dan aktivitas antioksidan ekstrak dan fraksi daun puring kura serta korelasinya. Ekstrak dan fraksi daun puring kura dipantau menggunakan kromatografi lapis tipis (KLT) dan dilakukan penetapan flavonoid total dan aktivitas antioksidan menggunakan spektrofotometer UV-Vis metode DPPH. Ekstrak etanol, etil asetat, dan n-heksan menunjukkan nilai kesetaraan flavonoid total berturut-turut sebesar 66,690; 96,512 dan 66,184 mg QE/g sampel, sedangkan nilai kesetaraan aktivitas antioksidan adalah 60,109; 33,938 dan 32,836 mg AAE/g sampel. Fraksi gabungan 4 menunjukkan nilai kesetaraan flavonoid paling tinggi sebesar 299,615 mg QE/g sampel, namun nilai kesetaraan aktivitas antioksidan tertinggi dimiliki fraksi gabungan 6 yaitu sebesar 288,599 mg AAE/g sampel. Aktivitas antioksidan ekstrak dan fraksi daun puring kura tidak dipengaruhi oleh kandungan flavonoid total.

Kata Kunci : Antioksidan, *Codiaeum variegatum*, flavonoid total, korelasi, puring kura

#### **Abstract**

*Croton (Codiaeum variegatum L.) has the potential as a natural antioxidant due to its flavonoid content, which can neutralize free radicals. This research aims to determine the equivalence values of total flavonoid and antioxidant activity of croton leaves extract and fractions, as well as their correlation. The extract and fractions of croton leaves were monitored using thin-layer chromatography (TLC) and the determination of total flavonoids and antioxidant activity was conducted using UV-Vis spectrophotometry with the DPPH method. Ethanol, ethyl acetate, and n-hexane extracts showed total flavonoid equivalence values of 66.690, 96.512, and 66.184 mg QE/g sample, while the equivalence values of antioxidant activity were 60.109, 33.938, and 32.836 mg AAE/g sample, respectively. Combined fraction 4 exhibited the highest total flavonoid equivalence value at 299.615 mg QE/g sample, whereas combined fraction 6 had the highest antioxidant activity equivalence value at 288.599 mg AAE/g sample. The antioxidant activity of croton leaf extract and fractions was not influenced by the total flavonoid content.*

Keywords : Antioxidant, *Codiaeum variegatum*, correlation, croton, total flavonoid