

Extraction and determination of anthraquinone from herbal plant as bird repellent / Ruchira Khoomsab, Kan Khoomsab

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Abstrak

ABSTRAK

The objective of this study was to compare the anthraquinone content of cassod tree leaves, golden shower pods and noni roots that were determined in the form of free anthraquinone and anthraquinone glycoside by Soxhlet and decoction extraction method. The anthraquinone compounds were identified by the Borntrager reaction. The determination of anthraquinone UV-Visible spectrophotometry at 325nm was used. The results show that the highest anthraquinone content in the golden shower pods with 70% (v/v) ethanol was 193.79mg/g dry plant. The suitable solvent for the anthraquinone glycoside extracts was 80% (v/v) ethanol for the cassod tree leaves. In the testing of birds, 1% of the extracted golden shower pods that cover the seeds for food consumption showed a lower amount than that consumed in the control group ($p < 0.05$).