

BAB 5

KESIMPULAN DAN SARAN

5.1 Kesimpulan

Berdasarkan hasil penelitian uji aktivitas *in vitro* penghambatan denaturasi albumin dari ekstrak dan fraksi Bajakah Kalalawit, dapat disimpulkan bahwa :

1. Profil kandungan senyawa bioaktif pada ekstrak dan fraksi Bajakah Kalalawit menunjukkan bahwa ekstrak mengandung flavonoid, alkaloid, fenolik/tanin, dan terpenoid. Fraksi etil asetat mengandung flavonoid, fenolik/tanin, dan terpenoid, sedangkan fraksi air mengandung flavonoid dan fenolik/tanin. Fraksi n-heksana tidak menunjukkan senyawa yang teridentifikasi secara jelas.
2. Aktivitas penghambatan denaturasi albumin secara *in vitro* menunjukkan perbedaan pada setiap sampel. Aktivitas penghambatan pada konsentrasi 0,7; 10; dan 100 ppm menunjukkan bahwa ekstrak Bajakah Kalalawit memiliki rentang penghambatan sebesar 22–45%, fraksi n-heksana 9–18%, fraksi etil asetat 12–46%, dan fraksi air 22–39%. Di antara fraksi yang diuji, fraksi etil asetat menunjukkan aktivitas penghambatan tertinggi, terutama pada konsentrasi 0,7 ppm sebesar 46,86%, sedangkan fraksi n-heksana menunjukkan aktivitas terendah. Aspirin dan rutin sebagai pembanding juga memiliki aktivitas penghambatan denaturasi albumin dengan rentang masing-masing 16–37% dan 20–37%. Berdasarkan hasil tersebut, ekstrak dan fraksi Bajakah Kalalawit berpotensi dikembangkan sebagai sumber antiinflamasi alami.

5.2 Saran

Berdasarkan hasil penelitian yang telah dilakukan, saran yang dapat diberikan yaitu;

1. Penelitian selanjutnya disarankan melakukan uji aktivitas enzim COX-1 dan COX-2 secara *in vitro* untuk mendukung dan mengonfirmasi potensi antiinflamasi ekstrak dan fraksi kayu Bajakah Kalalawit.
2. Perlu dilakukan kontrol negatif pada setiap sampel untuk memastikan absorbansi.
3. Perlu dilakukan optimasi ulang untuk pemisahan pada Kromatografi Lapis Tipis (KLT) agar pemisahan lebih optimal dan identifikasi kandungan senyawa lebih jelas.

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