

BAB 5

KESIMPULAN DAN SARAN

5.1 Kesimpulan

Berdasarkan hasil penelitian karakterisasi lendir daun bunga sepatu (*Hibiscus rosa-sinensis* L.), dapat disimpulkan bahwa:

1. Lendir daun bunga sepatu memiliki karakteristik fisika berupa
 - a. *Swelling index* didapatkan nilai sebesar $106,45 \pm 1\%$.
 - b. Densitas didapatkan nilai *bulk* dan *tapped density* sebesar $0,53 \pm 0,01$ g/mL dan $0,66 \pm 0,01$ g/mL dan *hausner ratio* sebesar 1,24.
 - c. Viskositas didapatkan nilai sebesar $285,66 \pm 5,85$ cPs.
2. Lendir daun bunga sepatu memiliki karakteristik kimia berupa
 - a. pH didapatkan nilai sebesar $6,81 \pm 0,08$.
 - b. Skrining fitokimia menunjukkan hasil positif mengandung senyawa karbohidrat.
 - c. Spektrum FTIR menunjukkan gugus O-H, C=O, dan COO⁻ dan Spektrum ¹H-NMR menunjukkan adanya cincin piranosa, gugus metil dan gugus karboksilat.

5.2 Saran

Berdasarkan hasil penelitian yang telah dilakukan, saran yang dapat diberikan untuk penelitian selanjutnya adalah:

1. Perlu dilakukan penelitian lanjutan formulasi sediaan farmasi untuk mengevaluasi kinerja lendir daun bunga sepatu sebagai bahan tambahan dan dibandingkan dengan eksipien yang telah digunakan secara luas.
2. Perlu dilakukan pemurnian lendir untuk meningkatkan konsistensi karakteristik fisik dan kimia yang dihasilkan.

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