BAB 5
KESIMPULAN DAN SARAN

5.1 Kesimpulan

1. Karakteristik fisika dari lendir bayam malabar.
   a. Densitas didapatkan nilai *bulk* dan *tapped density* sebesar 0,425 ± 0,014 g/mL dan 0,514 ± 0,018 g/mL. Sehingga didapat nilai *Hausner ratio* sebesar 1,24.
   b. *Swelling index* didpatkan nilai sebesar 84,76%.
   c. Viskositas didapatkan nilai sebesar 10,2 cPs
2. Karakteristik kimia dari lendir bayam malabar.
   a. pH didapatkan nilai sebesar 6,31.
   b. Data FTIR menunjukkan gugus (-OH), (C-H), ($-CH_3$), (C=O), (COO^-). dan ^{1}H-NMR menunjukkan adanya ikatan alpha-glikosidik, beta-glikosidik dan cincin gula yang mengikat gugus hidroksil.
   c. Skrinning fitokimia positif mengandung flavonoid, tanin dan karbohidrat.

5.2 Saran

1. Melakukan uji pengaplikasian pada formulasi sediaan tablet secara langsung menggunakan mucilage ini dengan variasi sebagai penghancur.
2. Melakukan proses pemurnian lebih lanjut. Hal ini bertujuan untuk memisahkan fraksi polisakarida dari senyawa metabolit sekunder seperti flavonoid, tanin, dan saponin, guna memperoleh senyawa yang bersifat inert dan murni.

3. Melakukan optimasi metode ekstraksi, seperti jenis pelarut yang digunakan dan waktu maserasi. Yang mana bertujuan untuk memperoleh hasil rendemen yang lebih besar.

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