BAB V
KESIMPULAN DAN SARAN

5.1. Kesimpulan

Berdasarkan pembahasan dari hasil kajian yang telah dilakukan, dapat disimpulkan bahwa:

a. Radiasi gelombang mikro dapat mempengaruhi proses produksi selulosa mikrokristalin dengan pemanasan internal sehingga dapat mempercepat reaksi kimia antara bahan dengan pereaksi. Lamanya radiasi dan daya gelombang mikro yang digunakan harus diperhatikan sesuai dengan karakteristik bahan baku.

b. Radiasi gelombang mikro efektif dapat membantu dalam proses produksi selulosa mikrokristalin, terutama pada saat mengisolasi selulosa dari bahan baku dan proses radiasi dengan gelombang mikro relatif lebih cepat (sekitar 10-40 menit) dibandingkan dengan metode konvensional.

5.2. Saran

Berdasarkan hasil pembahasan terhadap kajian yang telah dilakukan, dapat disarankan:

a. Adanya penelitian-penelitian baru khususnya mengenai produksi selulosa mikrokristalin bahan alam yang menggunakan radiasi gelombang mikro pada proses pembuatannya.

b. Dilakukan optimasi pada setiap percobaan yang menggunakan radiasi gelombang mikro.

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