

## **BAB V**

### **KESIMPULAN DAN SARAN**

#### **5.1. Kesimpulan**

Berdasarkan hasil pembahasan penelitian yang telah dilakukan dapat disimpulkan:

- a. Daya radiasi yang semakin tinggi dapat memberi pengaruh negatif yang menurunkan rendemen dan indeks kristalinitas, sedangkan peningkatan waktu radiasi juga menurunkan hasil rendemen namun dapat meningkatkan indeks kristalinitas. Interaksi dari daya dan waktu radiasi meningkatkan rendemen dan menurunkan indeks kristalinitas MCC yang dihasilkan.
- b. Kondisi optimum radiasi gelombang mikro pada pembuatan selulosa mikrokristalin adalah 493,44 watt dan 2,89 menit.

#### **5.2. Saran**

Berdasarkan hasil pembahasan penelitian yang dilakukan dapat disarankan:

- a. Dilakukan verifikasi terhadap kondisi optimum dan karakterisasi selulosa mikrokristalin.
- b. Dilakukan pengujian lebih lanjut yang meliputi pengujian mikrobiologi, pengujian logam berat, serta pengujian kompresibilitas maupun kompaktibilitas terhadap MCC yang dihasilkan.

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