

## BAB V

### KESIMPULAN DAN SARAN

#### 5.1 KESIMPULAN

1. Nanopartikel perak dapat disintesis dengan metode reduksi menggunakan ekstrak kulit pisang kepok (*musa paradisiaca linn.*)
2. Semakin kecil konsentrasi prekursor perak nitrat (0,125; 0,1; 0,075; dan 0,05 M) yang digunakan, maka semakin kecil pula kemungkinan terjadinya aglomerasi, sehingga ukuran nanopartikel perak yang terbentuk semakin kecil (12,053; 10,755 ; 8,44; dan 5,48 nm).
3. Konstanta laju kecepatan reaksi pada nanopartikel perak yang diperoleh dari sintesis dengan konsentrasi precursor AgNO<sub>3</sub> 0,05 M, adalah sebesar  $4,35 \times 10^{-4} \text{ s}^{-1}$ .

#### 5.2 SARAN

1. Reaksi autokatalitik pada sintesis nanopartikel perak merupakan reaksi yang sangat cepat, maka sebaiknya digunakan konsentrasi reaktan yang kecil, sehingga jalannya reaksi dapat dikontrol.
2. Partikel nano sangat rentan terhadap aglomerasi, sehingga selanjutnya dapat diidentifikasi kondisi untuk mengurangi kemungkinan terjadinya aglomerasi.

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