

## BAB 5

### KESIMPULAN DAN SARAN

#### 5.1 Kesimpulan

1. Fungi endofit dapat diisolasi dari kulit buah jeruk bali (*Citrus maxima*) dan diperoleh 6 macam fungi endofit murni yang diberi kode FEKJB 1, FEKJB 2, FEKJB 3, FEKJB 4, FEKJB 5 dan FEKJB 6.
2. Fungi endofit dengan kode FEKJB 1 dan FEKJB 2 memberikan hasil aktivitas antibakteri terhadap *Staphylococcus aureus* ATCC 6538. FEKJB 1 menunjukkan rasio DHP sebesar  $2,25 \pm 0,11$  dan FEKJB 2 menunjukkan rasio DHP sebesar  $2,70 \pm 0,11$ . Sedangkan ke-4 fungi endofit murni yang lain, tidak memberikan hasil aktivitas antibakteri terhadap *Staphylococcus aureus* ATCC 6538.
3. Karakterisasi fungi endofit kulit buah jeruk bali meliputi makroskopis, mikroskopis dan uji biokimia. Diduga fungi endofit dengan kode FEKJB 1 termasuk dalam genus *Penicillium*, FEKJB 2 termasuk dalam genus *Aspergillus*, FEKJB 3 termasuk dalam genus *Zopfiella*, FEKJB 4 termasuk dalam genus *Fusarium*, FEKJB 5 termasuk dalam genus *Mortierella* dan FEKJB 6 termasuk dalam genus *Humicola*.

## **5.2 Saran**

1. Dilakukan penelitian lebih lanjut dari senyawa pada fungi endofit kulit buah jeruk bali yang memiliki aktivitas antibakteri terhadap *Staphylococcus aureus* ATCC 6538.
2. Dilakukan uji aktivitas antibakteri terhadap bakteri lainnya.
3. Dilakukannya skrining fitokimia pada fungi endofit kulit buah jeruk bali.

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