

## **BAB 5**

### **KESIMPULAN DAN SARAN**

#### **5.1 Kesimpulan**

1. Fungi endofit MC2 Genus *Oidiodendron* memiliki aktivitas enzim L-asparaginase dan L-glutaminase.
2. Profil kurva pertumbuhan fungi endofit MC2 Genus *Oidiodendron* mencapai fase stasioner mulai waktu 32 jam setelah inokulasi ke dalam media pertumbuhan.
3. Profil kurva produksi enzim L-asparaginase dari fungi endofit MC2 Genus *Oidiodendron* belum dapat diketahui, namun berdasarkan hasil kajian ulang literatur enzim L-asparaginase dapat diproduksi mulai waktu 48 hingga 114 jam setelah inokulasi ke dalam media pertumbuhan.
4. Karakteristik enzim L-asparaginase dari fungi endofit MC2 genus *Oidiodendron* belum dapat diketahui, namun berdasarkan hasil kajian ulang literatur pH optimum enzim L-asparaginase kemungkinan dalam rentang 5.8 hingga 9.0, suhu optimum enzim L-asparaginase kemungkinan dalam rentang 30 hingga 50, enzim L-asparaginase stabil dalam rentang pH 7.0 hingga 8.0 dan suhu hingga 40 °C

#### **5.2 Saran**

Sebaiknya dilakukan penelitian ulang untuk penentuan kurva produksi enzim L-asparaginase dan karakterisasi enzim L-asparaginase berupa penentuan pH optimum dan suhu optimum enzim L-asparaginase serta kestabilan enzim terhadap pengaruh pH dan suhu dari fungi endofit MC2 genus *Oidiodendron* yang diisolasi dari daun segar tanaman tomat

(*Lycopersicon esculentum* Mill.). Selain itu perlu juga dilakukan pemurnian serta pengujian lebih lanjut dari enzim yang dihasilkan agar dapat diaplikasikan dalam ruang lingkup yang lebih luas.

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