

## **BAB V**

### **KESIMPULAN DAN SARAN**

#### **5.1 Kesimpulan**

- a. Profil kurva pertumbuhan dan kurva produksi dari isolat *Aspergillus* kode MC1A optimal berturut-turut pada 32-48 jam dan 120 jam.
- b. Isolat *Aspergillus* kode MC1A menghasilkan L-Glutaminase.
- c. Berdasarkan hasil kajian literatur, suhu optimum dan pH optimum L-Asparaginase dari *Aspergillus* adalah 35 °C dan pH 6.
- d. Berdasarkan hasil kajian literatur, aktivitas spesifik L-Asparaginase dari *Aspergillus* pada suhu dan pH optimum adalah 6,59 U/mg.
- e. Berdasarkan hasil kajian literatur, suhu 70 °C dan pH 8 dapat mempertahankan stabilitas aktivitas L-Asparaginase dari *Aspergillus*.

#### **5.2 Saran**

Sebaiknya untuk tahap penentuan kurva pertumbuhan, media berisi fungi diletakkan menetap di satu tempat dan dihindarkan dari guncangan agar tidak ada fungi yang menempel dan mengering pada dinding wadah. Perpanjangan waktu inkubasi juga dapat dilakukan untuk mendapatkan aktivitas paling optimal dari enzim L-Asparaginase. Penelitian lebih lanjut perlu dilakukan untuk purifikasi enzim L-Asparaginase atau menemukan senyawa yang dapat menghambat aktivitas L-Glutaminase secara spesifik untuk meminimalkan kemungkinan terjadinya efek samping yang ditimbulkan oleh L-Glutaminase.

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