

## **BAB 5**

### **KESIMPULAN DAN SARAN**

#### **5.1 Kesimpulan**

1. Profil kurva pertumbuhan enzim L-asparaginase yang berasal dari isolat fungi endofit genus *Rhizopus* pada daun tanaman tomat saat berada pada fase stasioner yang dicapai dalam kondisi optimal 48 jam setelah inokulasi ke media MCD cair.
2. Hasil skrining enzim L-glutaminase dari genus *Rhizopus* positif.
3. Kurva produksi enzim L-asparaginase yang berasal dari *Rhizopus* saat berada pada fase stasioner dalam kondisi optimal 48 jam.
4. Karakterisasi enzim L-asparaginase dari *Rhizopus* dicapai pada rentang pH optimum 6,0-7,0, suhu optimum 30-45°C serta stabil pada suhu 30-40°C dan pH 6,0-8,0.

#### **5.2 Saran**

Sebaiknya dilakukan pengujian ulang untuk mengetahui karakterisasi enzim L-asparaginase, karena data penelitian ini sangat jauh dari sempurna dimana beberapa tahap penelitian belum dilakukan uji untuk mengetahui aktivitas enzim L-asparaginase yang dihasilkan oleh genus *Rhizopus*. Dapat pula dilakukan pengujian optimasi parameter pertumbuhan yang dapat mempengaruhi aktivitas enzim L-asparaginase. Selain itu, dapat dilakukan pemurnian enzim L-asparaginase menggunakan beberapa metode purifikasi enzim.

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