

BAB 5

KESIMPULAN DAN SARAN

5.1 Kesimpulan

1. Profil kurva pertumbuhan dan kurva produksi enzim L-asparaginase asal isolat fungi endofit genus *Fusarium* pada daun tomat (*Lycopersicum esculentum* Mill.) mengikuti fase adaptasi logaritmik dan stasioner, dari pertumbuhan serta produksi enzim paling optimal dicapai pada fermentasi 72 jam.
2. Suhu optimum enzim L-asparaginase asal isolat fungi endofit genus *Fusarium* pada daun tomat (*Lycopersicum esculentum* Mill.) berada di antara suhu 35°C dan 40°C namun dipilih suhu 40°C karena memiliki aktivitas enzim paling besar, sedangkan pH optimum pada pH 6.
3. Aktivitas spesifik enzim L-asparaginase asal isolat fungi endofit genus *Fusarium* pada daun tomat (*Lycopersicum esculentum* Mill.) pada suhu 40°C dan pH 6 adalah sebesar 0,2987 unit/mL.

5.2 Saran

Sebaiknya dilakukan penelitian lebih lanjut mengenai afinitas L-glutamin dan pemurnian enzim L-asparaginase yang dihasilkan oleh isolat fungi endofit genus *Fusarium* pada daun tomat (*Lycopersicum esculentum* Mill.).

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