

BAB 5

SIMPULAN

5.1. Simpulan

- a. Limbah ampas tebu dapat menghasilkan isolat bakteri murni yang mempunyai aktivitas selulolitik menghasilkan enzim selulase.
- b. Bakteri penghasil enzim selulase yang diperoleh termasuk bakteri yang memiliki genus *Bacillus* yang sudah dikarakterisasi secara visual melalui pengamatan makroskopis, mikroskopis, dengan dan tanpa pewarnaan, karakterisasi biokimia, serta melalui uji KIT.
- c. Aktivitas enzim selulase kasar dengan waktu inkubasi selama 48 jam memiliki nilai rata-rata aktivitas enzim yang lebih besar yaitu $0,029 \pm 0,009$ unit/ml. Sedangkan, pada waktu inkubasi 24 jam nilai rata-rata aktivitas enzimnya lebih kecil yaitu, $0,027 \pm 0,007$ unit/ml.

5.2. Alur Penelitian Selanjutnya

Untuk dapat memastikan hasil skrining dan isolasi bakteri selulolitik memiliki kesamaan karakter yang spesifik dengan *Bacillus pumilus* sebaiknya dilakukan lagi uji homologi gen 16S rRNA.

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