

BAB 5

SIMPULAN

5.1 Simpulan

- a. Jumlah ekstraksi yang berbeda pada isolasi DNA kromosom memberikan perbedaan hasil dari kedua metode yang digunakan.
- b. Berdasarkan identifikasi amplifikasi gen penyandi 16S rRNA, isolat bakteri SF01 tidak memiliki hubungan kekerabatan dengan *Bacillus pumilus*
- c. Isolat SF01 memiliki homologi yang mendekati dengan homologi *Bacillus subtilis* strain B7 dengan persentase homologi 99%

5.2 Saran

Berdasarkan penelitian yang dilakukan dengan membandingkan kedua metode yang digunakan, sebaiknya proses ekstraksi dilakukan lebih dari satu kali untuk mendapatkan DNA yang lebih murni. Selain itu dari kedua metode yang digunakan penambahan RNase akan sangat membantu mengurangi jumlah kontaminasi RNA.

5.3 Alur Penelitian Selanjutnya

Setelah diketahui analisis homologinya, sebaiknya dilanjutkan dengan optimasi suhu, kurva pertumbuhan dan aktivitas dari *Bacillus subtilis* Strain B7 sehingga dapat digunakan untuk produksi enzim selulase.

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