

BAB 5

KESIMPULAN DAN SARAN

5.1. Kesimpulan

Dari hasil dan pembahasan penelitian yang telah dilakukan dapat diambil kesimpulan sebagai berikut :

1. Penambahan senyawa pereduksi *dithiothreitol* (DTT) konsentrasi 7 dan 9 mM meningkatkan aktivitas ekstrak kasar enzim selulase dari isolat *Bacillus subtilis* strain SF01.
2. Penambahan senyawa pereduksi 2-merkaptotanol konsentrasi 10, 20, 25, dan 30 mM meningkatkan aktivitas ekstrak kasar enzim selulase dari isolat *Bacillus subtilis* strain SF01.
3. Penambahan senyawa pereduksi glutation konsentrasi 15, 20, dan 25 mM meningkatkan aktivitas ekstrak kasar enzim selulase dari isolat *Bacillus subtilis* strain SF01.

5.2. Saran

Dari hasil pembahasan penelitian yang telah dilakukan disarankan bahwa apabila akan dilakukan tahapan pemurnian enzim selulase asal *Bacillus subtilis* strain SF01 maka dapat digunakan bahan-bahan atau senyawa-senyawa pereduksi seperti *dithiothreitol* (DTT), 2-merkaptotanol, dan glutation. Hal ini disebabkan karena bahan-bahan tersebut dapat meningkatkan aktivitas enzim selulase.

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