

BAB 5

KESIMPULAN DAN SARAN

5.1 Kesimpulan

Kesimpulan yang didapat dari penelitian ini adalah:

1. Spesies isolat bakteri pasir Padang teridentifikasi sebagai *Sporosarcina sp.*
2. Kadar CaCO₃ dari keseluruhan tanah tersementasi yang terukur dari sampel Kontrol 2, 10 ml, 20 ml, dan 30 ml berturut-turut adalah sebesar 23,37%; 33,12%; 42,63%; dan 45,79%.
3. Kuat tekan bebas (q_u) untuk sampel Kontrol 2, 10 ml, 20 ml, dan 30 ml berturut-turut adalah >500 kPa, >500 kPa, 150 kPa, dan 425 kPa. Sampel Kontrol 1 tidak membentuk tanah tersementasi sehingga kuat tekan bebasnya tidak dapat diukur.

5.2 Saran

Adapun saran untuk penelitian selanjutnya adalah:

1. Menggunakan pengulangan untuk setiap sampel sehingga didapatkan standar deviasi.
2. Melakukan identifikasi lebih lanjut terhadap isolat bakteri pasir Padang yang sejauh ini teridentifikasi sebagai *Sporosarcina sp.*
3. Menggunakan larutan sementasi dengan konsentrasi lebih rendah (0,25 M), untuk mendapatkan persebaran ukuran endapan CaCO₃ yang lebih seragam.

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