

BAB V KESIMPULAN DAN SARAN



5.1 Kesimpulan

Kesimpulan yang dapat ditarik dari penelitian “Pengolahan Limbah Tekstil dengan Beberapa Jenis Koagulan Alami” adalah:

1. Koagulan biji asam jawa, biji kelor, dan biji pepaya terbukti dapat menurunkan intensitas warna.
2. Tidak terdapat perbedaan yang signifikan dalam penurunan intensitas warna pada ketiga koagulan alami walaupun koagulan biji kelor memberikan penurunan intensitas warna tertinggi dari ketiga koagulan alami (lihat poin 3).
3. Dosis koagulan optimum dalam menurunkan intensitas warna baik untuk koagulan asam jawa, kelor, maupun pepaya adalah 3 g/L dengan penurunan intensitas warna secara berurut sebesar 58,01%, 58,29%, dan 57,31%.
4. Dosis zat warna tidak berpengaruh signifikan terhadap penurunan intensitas warna limbah cair tekstil.

5.2 Saran

Saran yang dapat diberikan untuk penelitian selanjutnya adalah:

1. Dilakukan analisa SEM untuk koagulan kelor dan pepaya sebelum proses koagulasi.
2. Dilakukan peninjauan ulang terhadap kadar kanji dan Na-CMC dalam pembuatan limbah cair tekstil sintetis.



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