



BAB V KESIMPULAN

A. Kesimpulan

- 1) Koagulan biji pepaya dapat berperan sebagai koagulan yang memberikan adanya penurunan turbiditas pada sampel air limbah suspensi kaolin dan penurunan konsentrasi zat warna pada sampel air limbah zat warna Drimarene Dark Red HF-CD.
- 2) Nilai pH dan dosis koagulan sangat mempengaruhi proses koagulasi dengan biji pepaya terhadap sampel air limbah suspensi kaolin dan sampel air limbah zat warna Drimarene Dark Red HF-CD.
- 3) Koagulan biji pepaya dapat memberikan kondisi optimum pada penelitian untuk sampel air limbah zat warna Drimarene Dark Red HF-CD pada pH 2 dan dosis koagulan 0,5 g/L dengan % *removal* sebesar 81,32 %.
- 4) Koagulan biji pepaya dapat memberikan kondisi optimum pada model yang diperoleh untuk sampel air limbah zat warna Drimarene Dark Red HF-CD pada pH 1,96 dan dosis koagulan 0,59 g/L dengan % *removal* sebesar 83-84 %.
- 5) Koagulan biji pepaya tidak dapat memberikan kondisi yang optimum pada sampel air limbah kaolin.

B. Saran

- 1) Perlu dilakukan ekstraksi dengan pelarut yang sesuai supaya bahan aktif yang berperan sebagai koagulan dapat diperoleh dapat lebih murni dan tidak kotor.
- 2) Perlu dilakukan validasi terhadap kondisi optimum baik pH dan dosis koagulan dari model yang diperoleh untuk sampel air limbah zat warna Drimarene Dark Red HF-CD.



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