
Anti-termite Potential of *L. Leucocephala* plant on Indian white Termite in Sub-Tropical High Infestation Areas.

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Abstract

Looking at the rising problems with the infestation of the wood by many different pests worldwide, there is a significant rise in the economic losses that is being faced by every country by its commercial as well as residential sectors. This has encouraged the use of a lot insecticides and pesticides. All these pesticides and insecticides highly rely on the use of chemicals for their production. This use of chemicals in turn has harmful effects on the environment. An experiment was designed to create an eco-friendly insecticide and pesticide that was much cheaper and easier to use.

The study was conducted on *L. leucocephala* to investigate by using the leaf extract in different concentrations on the termites to take an account of its activity against termites. The phytochemical analysis of the leaf powder of *L. leucocephala* was also done to check for the presence of proteins, carbohydrates, tannins, steroids etc. The comparison of the treated blocks with respect to the controls showed that the amount of degradation in the controls was much higher than the treated blocks. Also, it was found that *L.leucocephala* was active against termites, only in higher concentrations. These results indicate that the leaves of *L. leucocephala* possess potential termiticidal properties.

KEYWORDS:Termiticidal, *L.leucocephala*, Phytochemical analysis, Chemical pesticide, Biopesticide