

# Influence of non-edible oil on oviposition preference and hatchability of acarid mite, *Tyrophagus putrescentiae* Schrank on Groundnut

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## ABSTRACT

The effect of non-edible oils on oviposition and hatching of acarid mite *Tyrophagus putrescentiae* were studied during the year 2017-18 and 2018-19 at Acarology Laboratory, Department of Entomology, N.M. College of Agriculture, Navsari Agricultural University, Navsari, Gujarat. All the five non-edible oils evaluated have a significant effect on the fecundity of mite, *T. putrescentiae*. Fecundity was markedly reduced when groundnut seeds infested with mite were mixed with *Neem*, eucalyptus, castor, karanj and alsin oil at the different level of concentrations of non-edible oils *i.e.* 0.50, 1.00 and 2.00 ml/kg. The alsin oil was least effective in reducing egg laying of mite. The discrimination quotient (DQ) was maximum 0.59 in *Neem* oil at 2.00 ml/kg concentration and was minimum (0.26) at 0.50 ml/kg in alsin oil treatment. Further, the per cent hatchability was maximum in the untreated groundnut seeds *i.e.* 96.67 per cent. In case of *Neem* oil at 2.00 ml/kg concentration only 64.50 per cent of eggs were hatched, while in case of alsin oil at 2.00 ml/kg concentration 89.33 per cent of eggs were hatched which were maximum as compared to all other non-edible oil treatments and less than that of untreated control.

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