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The neem tree, *Azadirachta indica* A, Juss (Meliaceae), is a source of azadirachtins, and has long been recognized for its unique properties (repellent, antifeedent, growth regulating and insecticidal) against at least 300 species of insect pests and nematodes. Laboratory bioassays were conducted to investigate the nematicidal activity of neem seed extract and azadirachtin A & B separately against root - knot nematodes, *Meloidogyne* sp., that cause serious damage to economically important crops (i.e. Tea) in Sri Lanka. The efficacy of the neem seed extract was tested against the second stage juvenile (J₂) of *Meloidogyne* sp. by observing immobility after 48 h under stereoscopic binocular microscope (x 35). Percentage immobility with azadirachtin A or B at 1.00 ppm is much less than that with the neem seed extract containing a mixture of azadirachtin isomers. A mixture of azadirachtin isomers is an effective nematicide at 1.00ppm against root- knot nematodes under laboratory conditions.