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Effect of different host plants on toxicity of indoxacarb to *Spodoptera litura* (Fab.)

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ABSTRACT

Five host crops *viz*., Castor, Sunflower, Cotton, Groundnut and Soybean belonging to different families were used to study the effect of different host on toxicity of indoxacarb to *Spodoptera litura* (Fab.) during the year 2011-12 and 2012-13. The larvae reared on Groundnut leaves were found most susceptible to indoxacarb with 0.969 and 1.305 ppm LC_{50} during 2011-12 and 2012-13 respectively. Whereas, the larvae reared on Castor leaves were found most tolerant with 2.544 and 2.969 ppm LC_{50} followed by Sunflower (2.510 and 2.795 ppm), Soybean (2.402 and 2.549 ppm) and Cotton (2.210 and 2.413 ppm) during 2011-12 and 2012-13 respectively. The order of toxicity was Castor> Sunflower> Soybean> Cotton> Groundnut. The results suggesting the role of host plants on toxicity of indoxacarb to *Spodoptera litura* (Fab.).

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