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Larvicidal effect of *Physalis acutifolia* on *Culiseta longiareolata* (Diptera ; Culicidae)

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Abstract

Plant extract of *Physalis acutifolia* was tested against 4th instar larvae of the mosquito *Culiseta longiareolata* L. The obtained results indicated a sensitivity of *Culiseta longiareolata* larvae for the plant species aroused. This sensitivity is even higher when exposure of the larvae to insecticides is extended in time. Generates the greatest mortality rate 96% for 29,78 g /l after 96 h of exposure. For LC50 *Physalis acutifolia* values, acted at low concentrations with an LC50 of 15,56g /l after 96 h of exposure. Preliminary toxicity tests on *Culiseta longiareolata* have confirmed its toxicity for these vectors.

Keywords: *Physalis acutifolia*, Mortality; LC50; 4th instars; *Culiseta longiareolata*

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