

# Mosquito — killing activity of strains of *Tolypocladium cylindrosporum* and *T. niveum*

Patogenita kmenů *Tolypocladium cylindrosporum* a *T. niveum* pro komáry

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Two new strains of *Tolypocladium cylindrosporum* W. Gams and one strain of *T. niveum* (Rostrup) Bissett from Czechoslovakia were pathogenous for larvae of *Culex pipiens autogenicus*. The  $LT_{50}$  of the first two was 8, that of the second 9 days. The  $LD_{50}$  was in the range of  $3 \times 10^5$  con./ml in *T. cylindrosporum* and  $2 \times 10^6$  con./ml in *T. niveum*. Conidia of both fungi remain active in sterile water at 4°C for 6 weeks. An exposure of more than 2 hours to a suspension of  $4 \times 10^5$  con./ml resulted in efficient infection and kill. Continuous exposure caused mortality after a shorter incubation time.

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Dva kmeny *Tolypocladium cylindrosporum* W. Gams a jeden kmen *T. niveum* (Rostrup) Bissett izolované v Československu byly patogenní pro larvy komára *Culex pipiens autogenicus*. U prvních dvou bylo  $LT_{50}$  8 dnů, u *T. niveum* 9 dnů. Odpovídající  $LD_{50}$  bylo  $3 \times 10^5$  konidií v 1 ml, a  $2 \times 10^6$  konidií v 1 ml. Konidie obou hub si uchovaly virulenci i při 6-týdenním uložení ve sterilní vodě při 4°C. Plná infekce a uhynutí larev nastalo po 2-hodinové a delší expozici larev suspenzi  $4 \times 10^5$  konidií v 1 ml. Trvalá expozice konidii vyvolala hynutí po kratší inkubaci.