

Dichotomomyces cejpíi — some characteristics of strains isolated from soil in the Slovak Republic

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The growth rate of vegetative hyphae of colonies of 22 *Dichotomomyces cejpíi* (Mílko) Scott strains was determined on Sabouraud agar, on Sabouraud agar with 2 and 4 % NaCl, on Sabouraud agar with pH 4-11 and on a medium with 1 % peptone and 4-30 % saccharose. *Dichotomomyces cejpíi* strains are a new member of heat resistant fungi. In our experiments hyphal growth was limited only on Sabouraud agar with 4% NaCl. Chloroform-extractable metabolites which stopped the mobility of tracheal cilia of 1 day old chick *in vitro* were produced by eighteen (58.5%) out of 31 *Dichotomomyces cejpíi* strains in the mycelium and by 26 (83%) in the medium. One strain (No. 2268) had ciliostatic activity comparable with the activity of important known mycotoxins.

Key words: *Dichotomomyces cejpíi*, microfungi, hyphal analysis, soil, heat-resistance, mycotoxin.

Piecková E. a Jesenská Z. (1997): *Dichotomomyces cejpíi* (Mílko) Scott — niektoré vlastnosti kmeňov izolovaných zo zeminy v Slovenskej republike. — *Czech Mycol.* 49: 229-237

Stanovila sa rýchlosť rastu vegetatívnych hýf kolónii 22 kmeňov *Dichotomomyces cejpíi* (Mílko) Scott na Sabouraudovom agare (IMUNA), na Sabouraudovom agare s 2 a 4 % NaCl, na Sabouraudovom agare s pH 4, 8, 9, 10, 11 a na médiu s 1 % peptónu a 4-30 % sacharózy pri teplote 25 a 37 °C. Kmene *Dichotomomyces cejpíi* patria do skupiny termorezistentných húb. Rast hýf bol v našich pokusoch obmedzený iba na Sabouraudovom agare so 4 % NaCl. Osemnásť (58,5%) z 31 kmeňov *Dichotomomyces cejpíi* produkovalo v mycéliu a 26 (83%) do média chloroformom extrahovateľné metabolity, ktoré zastavovali pohyb riasiniek priedušnice 1-dňových kurčiat *in vitro*. Jeden z kmeňov (č. 2268) mal ciliostatickú aktivitu porovnateľnú s aktivitou dôležitých známych mykotoxínov.