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Effect of malachite green in presence of surface actants

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Abstract

Effect of malachite green in presence of surface actants

Mücke, D. and M. Popp. Effect of malachite green on growth in presence of surface actants.

more than 80%. The inhibitory effect of malachite green was increased in the presence of the following surface actants (Tween 40 (10^{-4} g/100 ml), Tween 80 (10^{-4} g/100 ml), Lauryl pyridinium chloride (10^{-5} g/100 ml), and Dimethyl-benzylamino-acetic-dodecylamid (10^{-5} g/100 ml)) at 18°C and at 36°C (except for LK at 36°C). At 27°C the inhibitory effect of the surface octonh tested did not appear. The concentrations of surface actants tested in these investigations did not influence the growth of mycelium if the medium was free of malachite green. - - - Institut für Physiologische Chemie der Universität Rortock, 25 Rortock 1, Leninallee 70, DDR.

The LD50 of malachite green was determined to be 3×10^{-5} g per 100 ml, using N. crassa 3a6A, cultured for 5 days at 27°C. At 18°C the same concentration of malachite green inhibits the mycelial growth more than 60% (control without malachite green = 100%) and at 30°C