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### EVALUATION OF FUNGICIDAL EFFICIENCY OF IRANIAN MADE BENZALKONIUM CHLORIDE

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#### Abstract:

Fungicidal efficiency of Iranian made benzalkonium chloride named Akhgah, Afshang and Hamoon were evaluated on pure culture species of *Aspergillus niger*, *Candida albicans* and *Mucor* according to the standard method No. 2442 issued by the Institute of Standards and Industrial Research of Iran, from October 1993 to March 1994. Suspensions were prepared in a way that each cubic centimeter having  $3.5 \times 10^7$  conidia of *Aspergillus niger*,  $4 \times 10^7$  *Candida albicans* yeast cell and  $2 \times 10^7$  *Mucor* spore, and Improved Neubauer slide counting cell were used for enumeration. These laboratory study showed that Lecithine and Tween were the best neutralizers with equal power. Usage of five dilutions of 0.4, 0.6, 0.8, 1 fungus separately at 6.5 to 6.7 pH, confirmed the correctness of dilution figure of 0.4 percent proposed by producer companies and showed that these fungi are still sensitive against Benzalkonium Chloride disinfectants.

#### Keywords:

Fungicide . Antiseptic, Detergent

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