



203 Research paper

Behaviour of planktonic bacteria and those present in the structure of biofilms in relation to the action of some biocides

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In **Significant Impact Groups:**

Biosecurity \Internal biosecurity Materials

Species targeted: Other;

Age: Not stated;

Summary:

Many of the commercial substances used to clean surfaces, instruments, medical devices or industrial machinery are corrosive to metals, cause irritation to the skin, mucous membranes or even show a toxic and carcinogenic effect. For these reasons, it has been necessary to find solutions for combating or preventing the formation of biofilms on surfaces. In recent years, there has been a lot of interest in the use of organic acids for this purpose. This group of substances exerts an antibacterial effect at certain pH values and acts by changes in the cell wall of the bacteria. In the present paper, the efficacy of some organic acids (citric acid, malic acid and ADABLINE ALK product), on bacterial cells and those present in biofilms, on 3 bacterial species from the group of Gram negative bacteria (*Escherichia coli*, *Klebsiella pneumoniae*, *Pseudomonas aeruginosa*) and a Gram-positive one (*Staphylococcus aureus*) was evaluated, with varying results.

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Where to find the original material:

[https://agmv.ro/vol-28-nr-1-2018/;](https://agmv.ro/vol-28-nr-1-2018/)

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