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Antagonistic activity of *Lactococcus lactis* isolated from raw cow's milk of Mostaganem (Algeria) against *Escherichia coli* causing urinary tract infections

Zergoug Amina, Cheriguene Abderrahim and Chougrani Fadela University of Mostaganem, Algeria

Lactic acid bacteria are a heterogeneous group of microorganisms having in common the production of lactic acid as an end Deproduct of metabolism. *Lactococcus lactis* as probiotics bacteria are being increasingly studied for their inhibitory activity against pathogenic bacteria. The aim of this study is to investigate the inhibitory effect of lactic acid bacteria, we studied the antagonistic activity of *Lactococcus lactis* strains isolated from raw cow's milk from the region of Mostaganem (western Algeria) by the method of agar well diffusion against *Escherichia coli* obtained from urinary tract infection (UTI) patients, UTI is considered as the most common bacterial infection. The interaction between *Lactococcus lactis* and *Escherichia coli* has led to the appearance of important areas of inhibitions with diameters varying among 09 and 20 mm. In order to detect the nature of the inhibitory agent, other additional testes were taken. The results obtained are encouraging and take into consideration; as well it showed the activity of antibacterial substances of this probiotic towards the pathogenic species causing urinary tract infections.

Biography

Zergoug Amina has completed her Master's degree in 2013. She is currently a PhD student and Young Researcher at the Laboratory of Microbiology and Plant Biology from the University of Mostaganem (Algeria) in Applied Microbiology. She is also a Part Time Lecturer at the University of Mostaganem, Department of Biology on "Fermentation and extraction of metabolites" and "Methods of microbiological analysis" for the promotions of Master's degree.

zergoug.amina@gmail.com

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