280 Research paper

Medicinal Plants Based Products Tested on Pathogens Isolated from Mastitis Milk

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In **Significant Impact Groups:**

Specific alternatives \ New antibiotics

Species targeted: Dairy;

Age: Adult;

Summary:

The search for alternative drugs based on plants has become a priority in livestock medicine. In this context, the main objective of this study was to determine the antimicrobial effect of extracts and products of several plants on pathogens isolated from bovine mastitis. A total of eleven plant alcoholic extracts and eight plant-derived products were tested against 32 microorganisms from milk. The obtained results have shown an inhibition of bacterial growth for all tested plants, with better results for Evernia prunastri, Artemisia absinthium, and Lavandula angustifolia. Moreover, E. prunastri, Populus nigra, and L. angustifolia presented small averages of minimum inhibitory and bactericidal concentrations. Among the plant-derived products, three out of eight have shown a strong anti-microbial effect comparable with the effect of florfenicol and enrofloxacin. These results suggest an important anti-microbial effect of these products on pathogens isolated from bovine mastitis with a possible applicability in this disease.

Where to find the original material:

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