

Bacterial resistance of mastitis pathogens isolated from dairy cows in the Vth Region, Metropolitan Region and Xth Region, Chile Resistencia bacteriana en cepas patógenas aisladas de mastitis en vacas lecheras de la V Región, Región Metropolitana y Xa Reg

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Antimicrobial chemotherapy in human and veterinary medicine is one of the most important therapeutic tool against pathogenic agents causing infectious diseases; nevertheless, the development of multiple resistant strains during the last years has been reported. Some of the measures adopted to control this problem have been the veterinary prescription of antimicrobials for animal use, the permanent rotation of drugs, and the implementation of continuous monitoring programs for bacterial resistance. In the present paper the sensitivity of pathogenic bacteria isolated from dairy cows suffering mastitis in different regions of Chile against antimicrobials most frequently used in dairy herds is reported. The Plate Dilution Method and the Minimum Inhibitory Concentration (MIC) were used to evaluate the bacterial resistance of each isolated strain. A total of 449 bacterial strains were isolated from 963 aseptically collected milk samples in the 5th and Metropolitan Regions of Chile, *E. coli* b