

Contents

Summary	I
Resumen	V
Resum	IX
Chapter 1. Introduction	1
1. Goat milk quality.....	3
1.1. Goat milk production.....	3
1.2. Physico-chemical quality.....	5
1.3. Hygienic quality.....	10
2. Antimicrobial residues in milk.....	15
2.1. Use of antimicrobials in caprine livestock.....	15
2.2. Consequences of the presence of antibiotic residues in milk.....	19
2.3. Legislative aspects and quality control of antibiotics.....	20
3. Methods for antibiotic detection in milk.....	24
3.1. Detection system for monitoring of antibiotic.....	24
3.2. Microbial inhibitor tests.....	27
3.3. Interferences on the response of microbial inhibitor tests.....	30
4. References.....	35
Chapter 2. Objectives	53
Chapter 3. Presence of colostrum on microbial screening methods for antibiotic detection in goat milk	57
Chapter 4. The occurrence of positive results in microbial inhibitor tests due to the presence of detergents and disinfectants in goat milk	75
4.1. Detection of antibiotics in goat milk: effect of detergents on the response of microbial inhibitor tests.....	77
4.2. Interference of cleaning products for home use in goat milk on microbial inhibitor tests for screening for antibiotics.....	89
Chapter 5. Effect of antiparasitic drugs in goat milk on the incidence of positive results in microbial inhibitor tests	101

5.1. Antiparasitic drugs in goat milk: in vitro effect on the response of microbial tests for screening antibiotic residues.....	103
5.2. Residues in goat milk after treatment with albendazole. Interferences on the microbial tests for screening for antibiotics.....	117
5.3. Interferences on microbial inhibitor tests related to ivermectin treatment in dairy goats.....	129
Chapter 6. Evaluation of the impact of goat milk quality on microbial screening tests.....	143
Chapter 7. General discussion.....	171
Chapter 8. Conclusions.....	191
List of publications.....	195