Contents

| Chapter 1. Introduction |
|--|
| 1. Goat milk production and quality |
| 1.1. Goat milk and dairy products |
| 1.2. Goat milk quality5 |
| 1.3. Characteristics and quality parameters of goat cheese |
| 2. Use of antibiotics in dairy livestock |
| 2.1. Classification of antibiotics |
| 2.2. Use of antibiotics in veterinary medicine |
| 2.3. Legal aspects. Maximum Residue Limits |
| 3. Consequence of the presence of antibiotics in milk and dairy products 24 |
| 3.1. General considerations24 |
| 3.2. Effect of antibiotics in milk for the dairy industry |
| 3.3. Repercussion in public health |
| 4. References |
| Chapter 2. Objectives |
| Chapter 3. Results |
| Study 1. Evaluation of the characteristics of mature Tronchón cheese made from raw goat milk containing legally admissible amounts of antibiotics |
| Study 2. Influence of oxytetracycline in raw goat milk on the physicochemical characteristics of ripened cheese |
| Study 2.1. Impact of the presence of oxytetracycline residues in milk destined for the elaboration of dairy products: the specific case of cured goat cheese |
| Study 2.2. Volatile profile of matured Tronchón cheese affected by oxytetracycline in raw goat milk |
| Study 3. Effect of antibiotic residues in milk and cheeses after the off-label use of macrolides in dairy goats115 |
| Study 4. Food safety margin assessment of antibiotics in pasteurized goat milk and fresh cheese |
| Chapter 4. General discussion |
| Chapter 5. Conclusions |
| Dissemination of Results and Predoctoral Stay |