An-Najah National University Department of Veterinary Medicine



Samples

Incubation

Bucillus subtilis

Ph (6)

Media

Result

reading

Tetracycline Residue In Lamb Meat

Shaima Hijazi & Imad Shaheen, Adnan Fayyad

Department of Veterinary Medicine, An-Najah National University

Introduction:

Antibiotic resdiue in the meat of lamb and other animlas is a very serious problem that must me controlled, residues may cause a pathologic effect if its increased in the body of the human such as allargy, carcinoginicity, nephropathy and hepatoxicity

Objectives:

To detect the presence of Tetracycline residue in lamb carcasses.

Materials and Methods:

100 Samples from lamb diaphragm were take from Nablus Municipality Slaughterhouse.

Mode of Action of Media pH (6)

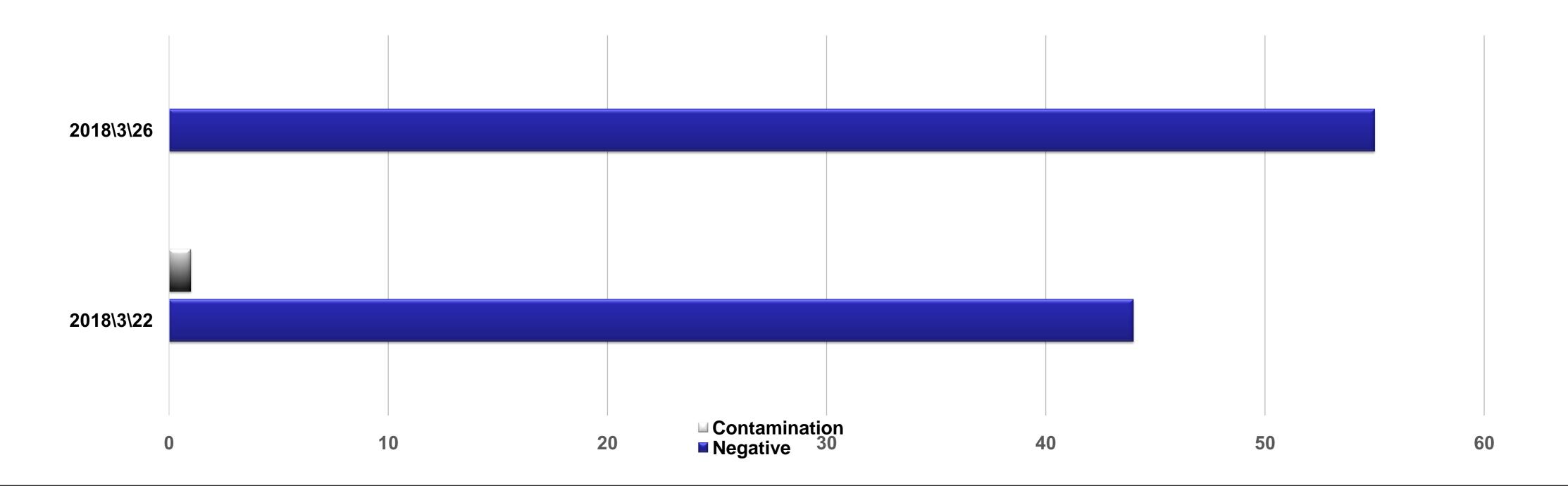


- The test is carried out according to the agar diffusion procedure.
- Small slices of the meat sample are placed on the inoculated Test Agar plates and incubated.
- Antimicrobial inhibitors contained in the samples diffuse into the nutrient media and cause growth-free inhibition zones to develop on the otherwise thickly covered plates.

The Bacteria Bacillus subtilis

- Was already isolated from the soil at the microbiologic lab of the Science collage at An–Najah National University.
- The concentration was adjusted to 10^7 cfu\ml.
- So After mixing 1ml of the broth to 1L of bacteria the final concentration is 10⁴ cfu\ml.

Results: 100 Sampels were tested, 99 negative and 1 contamination



Dusscusion:

- * Random samples were test with unknown history of using antibiotics before slaughtering.
- Samples collected were negative for tetracycline. However this does not exclude the presence of residues for other antibiotics.

Summary:

- The test was applicable and cheap compared to other methods.
- No Tetracycline residues were detected.
- Human health worth more attention and researches .
- * Improving supervision on antibiotics will improve the safety and quality of meat and meat products.

Conclusion:

- **Control** of Drugs and Antibiotic marketing is the Key to control Residue problems.
- * Meat with stamp is much trusty to consume.