**Detection of antibiotic residues in raw milk**

The presence of drug or antibiotic residues in milk due to treat infected dairy cattle is illegal. Antibiotic residue in milk may lead to:

1. Inhibition of dairy starter cultures used in the production of cheese and yoghurt
2. Severe allergic reactions in sensitive consumers
3. Development of bacteria resistance to antibiotics in human intestine

**Aim:** To detect of antibiotic residues in raw milk

**Equipment:**

1. Milk sample
2. Nutrient agar
3. Sensitive bacteria for all kinds of antibiotics (Geobacillus stearothermophilus)
4. Paper disks

**Procedure**

1. Prepare agar medium containing Geobacillus stearothermophilus
2. Dip the paper discs into the milk sample and place on the plate.
3. Incubate the plate for 24 h to 48 h at 37C°

**Results**

If there is antibiotic in the milk it will be inhibit growth of bacteria, produced a circle of inhibition around the disc

