

Examination of bacterial sensitivity to antibiotics

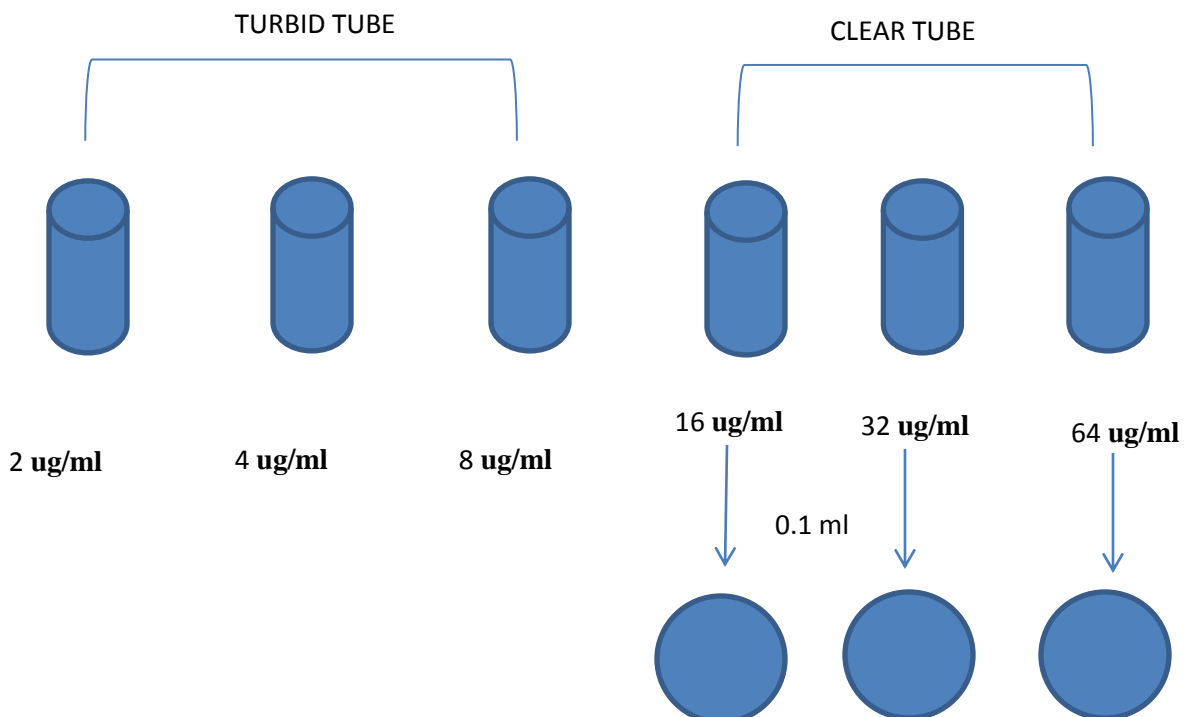
- method of the tube

1- culture stable amount from bacteria in liquid media, muller hinton broth in tube dependent on concentration of antibiotic that must be used .

2- added antibiotic in double concentrations to the tube from lower concentration to higher concentration by using double concentration

3- incubation the tubes in suitable temperature for bacteria, then the positive result shown as turbidity in tube .

○ the Minimal inhibitory concentration (MIC) can be determinate by testing first clear tube that appear after chain of turbidity tubes . and can determinate the Minimal bactericidal concentration (MBC) by taken amount of culture media (0.1ml) from clear tubes to petridish have Muller Hinton agar and incubation in 37c for 24-48 h, after that the growth of colonies appear in all plate, and where the first plate that not appear growth that can be MBC .



- Can prepare stock of the antibiotic solution by dissolved 250mg /5 ml distil water =50 mg/ml or $50 \times 1000 = 50\,000$ ug/ml
- the Minimal inhibitory concentration (MIC) can be found by the tube
- Minimal bactericidal concentration (MBC) can be found by the plate after culturing in the tube