Exercise No. (7):

Pseudomonas aeruginosa

- Type of sample: Bacterial Culture

- Stain: Gram's staining technique

- Microscopic characters:

* Colour: Red.

* **Shape:** Bacilli or rods.

* Size: Small to Medium size.

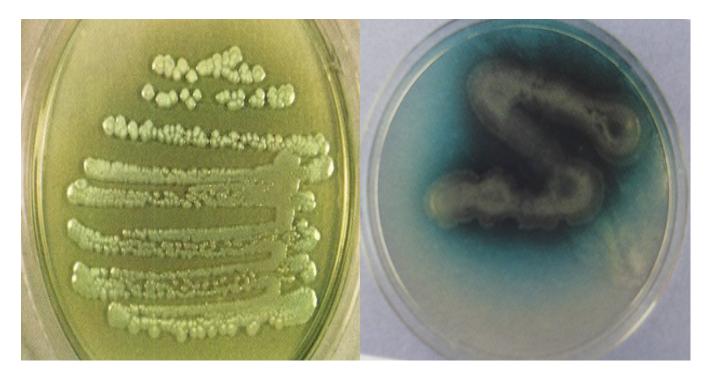
* Arrangement: No special arrangement

* Spore: Absent

* Special characters: colonies are flat feathery edges, rough or ground glass appearance (3-5 mm in diameter with odour of overripe grapes). Pyocyanin (bluish green) and fluorescein (greenish yellow) diffuse into the surrounding medium giving them bright green colour.

- Procedures

- 1- Cover the film with crystal violet for 3-5min wash gently with water.
- 2- Add Gram's iodine and leave to act for 1m (fixative or mordant substance) then wash with water.
- 3- With the slide held at 45° angle add decolourizer; absolute ethyl alcohol, drop by drop till faint pink colour appear.
- 4- Rinse immediately with water to avoid decolourizeation.
- 5- Add the counter stain, diluted carbol fuchsin for 0.5 min. then wash with water.
- 6- Blot dry and examine under oil immersion lens.



Microscopic Appearance

