

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 decolourization.
- 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

