

Exercise No. (6):

Gram-negative bacteria (e.g. *E. coli*)

- 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 circular, smooth, glistening, transparent, unpigmented.

- 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

