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Gram Stain Kit

CLSG80157

Summary and Explanation

The Gram Stain Kit is intended for the demonstration and differentiation of Gram positive and Gram-negative bacteria.

Gram Positive Bacteria: Blue

Gram Negative Bacteria: Red

Other Tissue: Yellow

Nuclei: Red

Control Tissue

Tissues fixed in 10% formalin are suitable for use prior to paraffin embedding. Consult references (Kiernan, 1981; Sheehan & Hrapchak, 1980) for further details on specimen preparation.

1. Cut sections, usually 3 to 5 μm and pick the sections up on glass slides.
2. Bake the slides for at least 30 minutes at approximately 70°C.
3. Allow to cool.

Reagents Provided

Kit Contents	Volume	Storage
Gentian Violet Solution	125 mL	15-30°C
Lugol's Iodine Solution	125 mL	15-30°C
Gram's Decolorizer	125 mL	15-30°C
Carbol Fuchsin	125 mL	15-30°C
Tartrazine Solution	125 mL	15-30°C

Storage and Handling

Do not use product after the expiration date printed on vial. If reagents are stored under conditions other than those specified here, they must be verified by the user. Diluted reagents should be used promptly.

Staining Procedure

1. Deparaffinize sections if necessary and hydrate to distilled water.
2. Cover tissue section with Gentian Violet Solution and incubate for 1 minute.
3. Rinse slide in distilled water to remove excess stain.
4. Cover tissue section with Lugol's Iodine Solution and incubate for 1 minute.
5. Rinse slide in running tap water to remove excess Iodine.
6. Place slide in Gram's Decolorizer until color no longer bleeds off section.
7. Rinse slide quickly in distilled water.
8. Cover tissue section with Carbol Fuchsin and incubate for 1-2 minutes.
9. Rinse slide quickly in distilled water to remove excess stain.
10. Apply Tartrazine Solution and incubate for 15 seconds.
11. Dehydrate slide quickly in 3 changes of absolute alcohol.
12. Clear in 2 changes of xylene or xylene substitute, and mount in synthetic resin.

Continued Overleaf.....

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References

- I. Sheehan, DC, Hrapchak, BB. Theory and Practice of Histotechnology; 1980, page 235.

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