

Gram Stain Kit

Description: 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

Uses/Limitations: For In-Vitro Diagnostic use only.
Histological applications.
Do not use past expiration date.
Use caution when handling these reagents.

Control Tissue: Any well fixed paraffin embedded tissue section.


Availability/Contents:

| <u>Kit Contents</u> | <u>Volume</u> | <u>Storage</u> |
|-----------------------------|---------------|------------------|
| Gentian Violet Solution | 125 ml | Room Temperature |
| Lugol's Iodine Solution | 125 ml | Room Temperature |
| Gram's Decolorizer Solution | 125 ml | Room Temperature |
| Carbol Fuchsin Counterstain | 125 ml | Room Temperature |
| Tartrazine Solution | 125 ml | Room Temperature |

Precautions: Keep away from open flame.
Avoid contact with skin and eyes.
Harmful if swallowed.
Follow all Federal, State, and local regulations regarding disposal.
Use in chemical fume hood whenever possible.

Procedure (Standard):

1. Deparaffinize sections if necessary and hydrate to distilled water.
2. Flood slide with Gentian Violet Solution and incubate for 1 minute.
3. Rinse slide in distilled water to remove excess stain.
4. Flood slide 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 running tap water.
8. Flood slide with Carbol Fuchsin and incubate for 1-2 minutes.
9. Rinse slide quickly in running tap water to remove excess stain.
10. Apply Tartrazine Solution and incubate for 15 seconds.

Storage: 18° C  25° C


Store Components at Room Temperature.

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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.

References:

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

Storage: 18° C  25° C

**Store Components at Room
Temperature.**