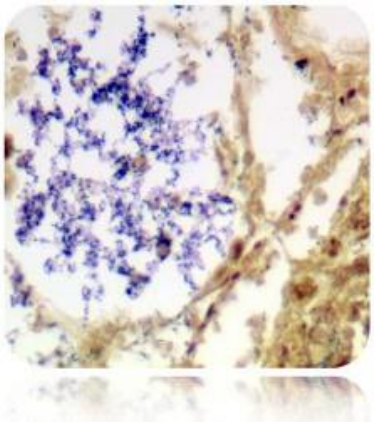
Gram Stain Kit

Description: The Gram Stain Kit is intended for the demonstration and differentiation of Gram-positive and Gram-negative bacteria. The stain is named after the Danish scientist Hans Christian Gram.

Gram Positive Bacteria:	Blue
Gram Negative Bacteria:	Red
Other Tissue:	Yellow
Nuclei:	Red

Uses/Limitations:
Not to be taken internally.
For In-Vitro Diagnostic use only.
Histological applications.
Do not use if reagents become cloudy.
Do not use past expiration date.
Use caution when handling reagents.
Non-Sterile.

Control Tissue: Any well fixed tissue section.
Air dried smear.



Kit Contents:

Kit Contents	Volume	Storage
Gentian Violet Solution	125 ml	18-25℃
Lugol's Iodine Solution	125 ml	18-25℃
Gram's Decolorizer Solution	125 ml	18-25℃
Carbol Fuchsin Counterstain	125 ml	18-25℃
Tartrazine Solution	125 ml	18-25℃

Precautions:
Avoid contact with skin and eyes.
Harmful if swallowed.
Follow all Federal, State, and local regulations regarding disposal.

Procedure:

1. Deparaffinize sections if necessary and hydrate to distilled water.
2. Apply adequate Gentian Violet Solution to completely cover tissue section and incubate for 1 minute.
3. Rinse slide in distilled water to remove excess stain.

Storage: 18° C 25° C

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4. Apply adequate Lugol's Iodine Solution to completely cover tissue section and incubate for 1 minute.
5. Rinse slide in gently 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 gently running tap water.
8. Apply adequate Carbol Fuchsin to completely cover tissue section and incubate for 1-2 minutes.
9. Rinse slide quickly in gently running tap water to remove excess stain.
10. Apply Tartrazine Solution and incubate for 15 seconds.
11. Rinse slide 1 time in absolute alcohol.
12. Dehydrate slide quickly in 3 changes of absolute alcohol.
13. 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.
2. Su, R.J., Wang, P. Role of Gram stain in microbiological laboratories with limited resources. Reviews in Medical Microbiology. July 2011, Volume 22, Issue 3: pages 41-44. Doi: 10.1097/MRM.0b013e3283478a08.
3. Marira, J., Surekha, Y, Asangi, K.S., Suresh, B.S., Ramesh, S. Sputum Gram Stain Assessment in Relation to Sputum Culture for Respiratory Tract Infections in a Tertiary Care Hospital. Journal of Clinical and Diagnostic Research. December 2011, Volume 5(8): pages 1699-1700.

Description:	Volume
Gentian Violet Solution	125 ml 500 ml 1000 ml
Lugol's Iodine Solution	125 ml 500 ml 1000 ml
Gram's Decolorizer	125 ml 500 ml 1000ml
Carbol Fuchsin Counterstain	125 ml 500 ml 1000 ml
Tartrazine Solution	125 ml 500 ml 1000 ml

Storage: 18° C  25° C

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