

# Instructions For Use

## KT018-IFU

Rev. Date: May 31, 2018

Revision: 6

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# 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	15-30°C
Lugol's Iodine Solution	125 ml	15-30°C
Gram's Decolorizer Solution	125 ml	15-30°C
Carbol Fuchsin Counterstain	125 ml	15-30°C
Tartrazine Solution	125 ml	15-30°C

**Precautions:** This product is a single-use, non-sterile, in vitro diagnostic device.  
 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. 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.



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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.



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