



Gram Stain Kit (Modified Brown & Brenn)

Description:	The Gram Stain Kit (Modified Brown & Brenn) is intended for the demonstration and differentiation of Gram-positive and Gram-negative bacteria.			
	Gram Positive Bacteria: Gram Negative Bacteria: Other Tissue: Nuclei:	Blue Red Slightly Yellow - Pink 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 secti Air dried smear.	ion.		

Kit Contents:

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Item #	Product Name	Volume	Storage
SSC1166	Gentian Violet Solution	500 ml	18-25°C
SSC1090	Lugol's lodine Solution	500 ml	18-25°C
SSC1163	Gram's Decolorizer Solution	500 ml	18-25°C
SSC1188	Safranin O Solution	500 ml	18-25°C
SSC1106	Picric Acid - Acetone Solution (0.1%)	500 ml	18-25°C

Precautions:

Keep away from open flame. Avoid contact with skin and eyes. Harmful if swallowed. Follow all Federal, State, and local regulations regarding disposal.







SS1004-BB-VO

Procedure (Standard):

- 1. Deparaffinize sections if necessary and hydrate to distilled water.
- 2. Cover tissue section with Gentian Violet Solution and incubate for 2 minutes.
- 3. Rinse slide in distilled water to remove excess stain.
- 4. Cover tissue section with Lugol's lodine Solution and incubate for 1 minute.
- 5. Rinse slide in running tap water to remove excess lodine.
- 6. Dip 1 time in distilled water.
- 7. Apply Gram's Decolorizer dropwise or by repeated dips until color no longer bleeds off section.
- 8. Rinse slide quickly in distilled water (2-5 seconds).
- 9. Cover tissue section with Safranin O Solution and incubate for 4 minutes.
- 10. Rinse slide quickly in distilled water to remove excess stain.
- 11. Dip once in absolute alcohol and blot dry.
- 12. Cover tissue section with Picric Acid Acetone Solution (0.1%) and incubate with agitation for 2-10 seconds.
- 13. Dehydrate slide very quickly in 3 changes of absolute alcohol.
- 14. Clear in 2 changes of xylene or xylene substitute, and mount in synthetic resin.

References:

- 1. Isenberg, H.H. Clinical Microbiology Procedures Handbook. American Society for Microbiology, 1992.
- 2. Sheehan, DC., Hrapchak, BB. Theory and Practice of Histotechnology; 1980, page 235.
- 3. Brown, J.H., Brenn, L. A method for the differential staining of gram-positive and gram-negative bacteria in tissue sections. Bulletin John Hopkins Hospital, 1931, Volume 48, pages 69-73.
- 4. Gram, C. Fosrtchr. Med., Volume 2, page 185, 1884.

Description:	Hazard Class	Packing Group	UN# Proper Shipping Name
Gentian Violet Solution	3	Ш	UN1993 Flammable liquids, n.o.s. (Ethanol)
Lugol's lodine Solution	Not Regulated	Not Regulated	Not Regulated
Gram's Decolorizer	3	Ш	UN1993 Flammable liquids, n.o.s. (Ethanol, Acetone)
Safranin O Solution	Not Regulated	Not Regulated	Not Regulated
Picric Acid – Acetone Solution (0.1%)	3	II	UN1090 Acetone

