GRAM STAIN METHOD

PURPOSE:	For In Vitro Diagnostic Use: Intended for the qualitative demonstration of Gram negative and Gram positive bacteria
PRINCIPLE:	Crystal violet stains all bacteria. Iodine complexes with crystal violet and forms a large complex that is more easily removed by the decolorizer from the lipid rich bacteria leaving the gram negative bacteria colorless. Safranin O is taken up by the colorless bacteria and the excess is removed by water.
CONTROL:	Any sample known positive for gram + - bacteria.
SPECIMEN PREPARATION:	Fixed thin film.
SOLUTIONS:	 Crystal Violet Grams Item# s168 Gram's Iodine Item# s204 Safranin O Counterstain (Gram's)Item# s267 Gram's Decolorizer (Acetone Alcohol 1:1) Item# s103 Solutions can be purchased separately from Poly Scientific.
NOTES:	
REFERENCE:	Sydney M. Finegold and William J. Martin, Diagnostic Microbiology, Chapt. 3, Mosby Co., St. Louis, 1982.

STAINING PROCEDURE:

- 1. Prepare a thin film of material to be examined, dry and fix.
- 2. Stain with Crystal Violet-Gram's for 30-60 seconds.
- 3. Wash with water.
- Stain with Gram's Iodine for 30 seconds.
- 5. Wash with water.
- 6. Decolorize with Gram's Decolorizer until solvent frlows coloressly from the slide. This usually takes 10-20 seconds depending on thickness of slide. Care should be taken no to over decolorize the film which may result in an incorrect reading.
- 7. Wash thoroughly with water.
- 8. Counterstain with Safranin O counterstain for 2 minutes.
- 9. Wash with water.
- 10. Air dry and examine.

RESULTS:

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