## MAY GRUNWALD GIEMSA METHOD FOR NUCLEAR ELEMENTS (Microwave)

PURPOSE:	For In Vitro Diagnostic Use: Intended for the qualitative demonstration of cells in hematopoietic tissue.
PRINCIPLE:	The Giemsa and Jenner Stains are a combination of acid and neutral dyes. Differential staining is attributed to relative charge of cells, dye size and the pH of the solutions.
CONTROL:	Normal bone marrow  Control Slides can be purchased from Histology Control Systems.  See inside back cover, Item# cs020.
SPECIMEN PREPARATION:	Zinc Formalin fixed, paraffin embedded sections cut at 4-6 micrometers
SOLUTIONS:	1. Jenner Stain Working Solution Item# s225 2. Giemsa Stain Stock Solution Item# s195     Giemsa Working Solution: Prepare fresh. Do not reuse.     Giemsa Stock
NOTES:	Variations in timing may occur due to the power wattage of the microwave oven. Provided times and power levels are based on 1000 watt microwave oven.
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## **STAINING PROCEDURE:**

- Deparaffinize and hydrate to water.
- 2. If Zenker fixed, place in Gram's or Lugol's Iodine Solution for 15 minutes.
  Rinse in tap water. Place in Sodium Thiosulfate 5% Aqueous for 3 minutes.
- 3. Wash well in running water.
- 4. Place slides in Methyl Alcohol, 2 changes for 3 minutes each.
- 5. Using a plastic coplin jar place slides in 40 mL of Jenner Stain Working Solution. Microwave for 20 seconds on power level 5.
- 6. Using a coplin jar place slides in 40 mL of Giemsa Working Solution. Microwave for 1 minute on power level 5.
- 7. Dehydrate rapidly in 95% Alcohol, Absolute Alcohol and clear in Xylene.
- 8. Mount with Poly Mount (Item# s2153) or any other acceptable mounting medium.

## **RESULTS:**

Nuclei	Blue
Cytoplasm	Pink to Rose
Bacteria	Blue

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