



# Instructions For Use

## GGs-IFU

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## Giemsa Stock Solution

### Description and Principle

Giemsa Stock Solution is a component of the Giemsa Stain Kit (Catalog# GMG-1) and is intended for use in the visualization of cells present in hematopoietic tissues and certain microorganisms. This kit may be used on formalin-fixed, paraffin-embedded or frozen sections.

### Expected Results

Nuclei:	Blue/Violet
Cytoplasm:	Light Blue
Collagen:	Pale Pink
Muscle Fibers:	Pale Pink
Erythrocytes:	Gray, Yellow or Pink
Rickettsia:	Reddish-Purple
Helicobacter Pylori:	Blue
Mast Cells:	Dark Blue with Red Granules

### Kit Contents

#### Additional Kit Reagents Sold Separately

1. May-Grunwald Stock Solution	18-25°C
2. Giemsa Stock Solution	18-25°C
3. Phosphate Buffer Solution, pH 6.8	18-25°C

### Storage

### Suggested Controls (not provided)

Blood Film, Any well fixed tissue..

### Uses/Limitations

For In-Vitro Diagnostic use only.

Do not use if reagents become cloudy or precipitate

Do not use past expiration date.

Use caution when handling reagents.

Non-Sterile

Intended for FFPE sections cut at 5-10µm.

This procedure has not been optimized for frozen sections.

Frozen sections may require protocol modification.

### Storage

Store at room temperature (18-25°C).

### Safety and Precautions

Please see current Safety Data Sheets (SDS) for this product and components GHS classification, pictograms, and full hazard/precautionary statements.

### Required but not included:

MAY500	May-Grunwald Stock Solution	18-25°C
PBM500	Phosphate Buffer Solution, pH 6.8	18-25°C

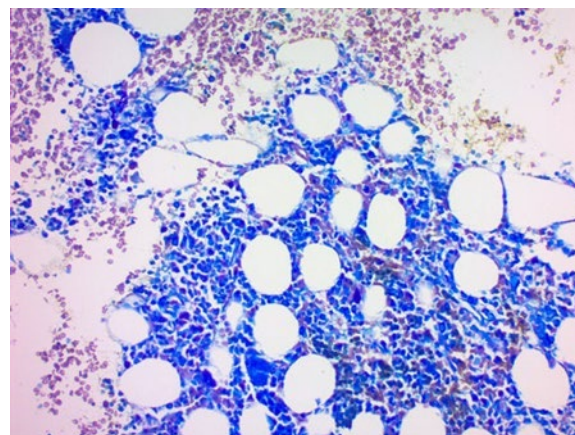
### Procedure

1. Deparaffinize sections if necessary and hydrate to distilled water. For blood smears fix in methanol for 5 minutes before staining.

**Prepare Working May-Grunwald Solution by mixing equal parts (1:1) May-Grunwald Stock Solution and Phosphate Buffer Solution, pH 6.8.**

2. Flood slide with Working May-Grunwald Solution for 5-7 minutes. Note: Agitate slide occasionally to insure proper staining.

3. Carefully flood slide with Phosphate Buffer Solution, pH 6.8 until stain no longer runs off.



Bone Marrow stained with the Giemsa Stain Kit (May-Grunwald) (For Bone Marrow)

When staining tissue samples prepare Working Giemsa Solution by mixing 60µl (~2 drops) of Giemsa Stock Solution per 1ml of Phosphate Buffer Solution, pH 6.8.

If staining a peripheral blood smear, instead mix 200µl (~6 drops) of Giemsa Stock Solution per 1ml of Phosphate Buffer Solution, pH 6.8.

4. Flood slide with Working Giemsa Solution for 10-15 minutes. Note: Agitate slide occasionally to insure proper staining.

5. Carefully flood slide with Phosphate Buffer Solution, pH 6.8 until stain no longer runs off.

6. Allow slide to remain in Phosphate Buffer Solution, pH 6.8 for an additional 3 minutes.

7. Dip slide quickly in distilled water to remove buffer and air dry at room temperature.

8. Clear slide in Xylene or Xylene Substitute.

9. Mount in synthetic resin.


### Notes:

1. Background in tissue sections may be differentiated by dipping slide in a solution of 0.25% Acetic Acid (not provided). This may allow for better visualization of mast cells.


2. The Working Solutions will immediately begin to precipitate once mixed, use immediately and do not re-use or store for later use.

### References

1. Sheehan, D., Hrapchak, B., Theory and Practice of Histotechnology: 2nd Edition, 1980, pages 155-156.
2. A.F.I.P. Laboratory Methods in Histotechnology; 1992, pages 111.
3. Laboratory Medicine: Vol. 25, No. 6, June 1994, page 389.

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