

## MAY-GRUNWALD STAIN

**IVD** For in -vitro diagnostic use only

 Store at Room Temperature

### Intended Use

Atlas May-Grunwald-Giemsa staining method is used for morphological inspection and differential counting of blood cells. May-Grünwald staining combines the effect of acidic eosin and alkaline methylene blue. Giemsa staining makes effect of azure. This staining stains all cellular components. The pH is a very important factor in staining, so any change will lead to wrong staining reaction. The limits of the most suitable pH are between 6.5 and 6.8.

### Materials Provided:

- May grunwald solution.

### Materials Not Provided:

- Giemsa solution.

### Preparation of Solutions:

- For May Gruwald Solution :Prepare May -Grunwald working solution by diluting 20 parts of May-Grunwald solution with 30 parts of pH 6.8 buffer.
- For Giemsa Solution : Prepare Giemsa working solution by diluting 10 parts Giemsa with 40 parts of pH 6.8 buffer.

### Procedure:

1. Stain fixed smears in the diluted May-Grunwald solution for 10 min.
2. Rinse in tap water.
3. Stain in the diluted Giemsa solution for 30min.
4. Wash and differentiate in buffer for 5-20 min until the desired color balance is achieved.
5. Allow smears to dry and mount in a DPX-type mountant.

### Results












The nuclei of white blood cells appear in blue, whereas the cytoplasm in light blue color. The cytoplasm of granulocytes contain some granules staining according to the type of the cell. The red blood cells appear in red.

### References

1. Hematology: Principles and Procedures, Sixth Edition, Brown AB, Lea & Febiger, Philadelphia 1993 p101.

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	Product Reference No.		For in-vitro diagnostic use.
	Caution.		Store at
	Read product insert before use.		Number of tests in the pack.
	Lot (batch) number.		Manufacturer.
	Expiry date.		Manufacturer telephone number.
	Manufacturer fax number.		