# GIEMSA STAIN

IVD CE

**PRODUCT CODE**
**BS004**

**APPLICATION**
A Romanowsky stain for blood and bone marrow morphology

**REAGENT COMPOSITION**

| | |
|---|---|
| Giemsa Stain Powder | 0.7 g |
| Glycerol | 250 ml |
| Methanol | 750 ml |

**REAGENT PREPARATION**
It is recommended to filter all stain before use.

**REAGENT STORAGE AND STABILITY**
Giemsa stain solution is stable up to the stated expiry date when stored at 15-25° C.
Keep tightly closed to prevent air oxidation

**PROCEDURE**

1. Fix air dried smears 15 minutes in methanol in a staining jar.
2. Transfer smears directly to a staining jar containing Giemsa Stain freshly diluted 1:10 with pH 6.8 buffer or distilled water. Stain for 10- 15 minutes.
3. Wash in several changes of buffered or distilled water, allow drying.

**Staining with May Grunwald's Stain:**

1. Fix air dried smears 15 minutes in methanol in a staining jar.
2. Transfer smears directly to a staining jar containing May-Grunwald's stain freshly diluted 1:1 with pH 6.8 buffer or distilled water. Stain for 15 minutes.
3. Transfer smears directly to a staining jar containing Giemsa Stain freshly diluted 1:10 with pH 6.8 buffer or distilled water. Stain for 10- 15 minutes.
4. Wash in several changes of buffered or distilled water, allow drying.

**NOTE**
This method takes much long than Romanowsky staining techniques but the brilliance of the Stained cells makes the extra time worthwhile particularly for bone marrow smears.

**RESULTS**

| | | |
|---|---|---|
| Red cells | - | Pink |
| Cell nuclei | - | Blue- Purple |
| Acidophil granules | - | Pink- Red |
| Basophil granules | - | Blue |

**SYMBOLS ON LABELS**

| Symbols | Signify | Symbols | Signify |
|---|---|---|---|
| REF | Catalogue Number | SIZE | Pack Size |
| | Expiry Date | VOL | Volume |
| | Storage Condition | LOT | Lot Number |
| | Instruction for Use | IVD | In Vitro Diagnostics |
| | Manufacturing Date | | Manufacturer |
| | Number of Tests | 2 | For Single Use Only |
| EC REP | EC Representative | CE | European conformity |

**BIBILOGRAPHY**


1. Giemsa, G. (1922): Das Wesen der Giemsa-Farbung, Zentralb f Bakt; p89, pp99-106.
2. May, R. et Grünwald L. (1909): Über die Farbung von Feutchpraparaten mit meiner Azur-Eosine methode, Deutsche med Xschr, p35, pp1751-1752.



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