

## Wright-Giemsa Stain

*Cell Stain*

**Catalogue Number:** CD005

**Brief Description:** The use of polychrome methylene blue and eosin Y, which are now used in the Wright-Giemsa Stain Solution, was developed by Romanowsky in 1891. He observed that this combination of dyes gave excellent selective staining of blood films. Also in 1891, Giemsa modified Leishman's stain to provide better stain intensity and fine cellular detail. The stain, however, required an extended staining process. The Wright-Giemsa Stain Solution has been developed to incorporate the exceptional brilliance and resolution of cellular details obtained from Giemsa Stain with the rapid staining time of Wright's Stain.

**Application:** Solution specifically intended to stain human blood cells. For differential cell count.

**Pack Size:** 100 mL

**Storage/Stability:** Room temperature (RT)

**Supplies:**

- ✧ Glass slides
- ✧ Coplin jar
- ✧ Microscope

**Experimental Procedures (for blood smear):**

*Reagents may be needed, but not provided.*

- ✧ Distilled water
- ✧ Acetic acid
- ✧ Methanol
- ✧ Wright-Giemsa Buffer Solution (Cat#: CD044)

Weight out accurately 0.501 grams of potassium phosphate, monobasic and 0.499 grams of sodium phosphate, dibasic. Dissolve in 1000 ml of distilled water.

- Preparation of blood films: Using any of the conventional techniques, smear a small drop of blood on a clean microscope slide. Allow to air dry.
- Fix by immersing in absolute methanol for 5 minutes.
- Preparation of Working Solution: Mix equal parts of Wright-Giemsa Stain and Wright-Giemsa Buffer Solution before use.
- Apply Working Solution for 5 minutes on a horizontally positioned slide.
- Rinse in Wright-Giemsa Buffer Solution (Cat#: CD044) with three changes, 10 dips each.
- Dry the slide in a tilted position; do not blot-dry.
- Mount a coverglass if desired.

**FOR RESEARCH USE ONLY, NOT FOR USE IN DIAGNOSTIC AND THERAPEUTIC PROCEDURES**



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