

## **B-153     GIEMSA THIN FILM STAIN**

**Fixation:** Streak a drop of blood, leukocytes, rickettsiae culture, pus or other exudate over a sterile glass slide by means of another slide or cover glass. Fix films in Methyl Alcohol for 2-3 minutes.

**Staining:**

1. Place in Ethyl or Methyl Alcohol for 5-7 minutes. Air dry.
2. Stain in the **Geimsa Thin Film Staining Solution** (B-153-1). \* Because different cells accept the stain at varying rates, prepare 3-4 sample slides and stain from 15-20 minutes. Some membranous structures (TRYPANOSOMES) may require 1-2 hour periods.

\*To prepare Geimsa Thin Film Staining Solution from **Geimsa Stock Solution** (B-153-3), mix before use.

**Geimsa Stock Solution** (B-153-3)    1 ml

**Phosphate Buffer** (B-153-2)        50 ml

3. Wash in distilled water and air dry.

**Stain Results:**

Reddish Purple	Nuclei, additional leukocyte features are similar to Wright Stain results.
Blue	Plasmodic cytoplasm
Red	Chromatin

**References:**

Clark, G., Staining Procedures, Williams and Wilkins Co., Baltimore, 3<sup>rd</sup>., c.1973, p. 125.