

**B-161      PRUSSIAN BLUE STAIN FOR NON-  
HEMOGLOBIN IRON**

**FIXATION:** none

**STAINING**

1. Rapidly air dry smear or imprint.
2. Flood slide with **Wright Staining Solution** (B-161-2) for 4 minutes.
3. Dilute the stain (on slide) with **Phosphate Buffer** (B-161-3). Leave for a length of time suitable to stain strength and cellularity of film
4. Immerse slide in Prussian Blue Staining Solution for 10 minutes Prepare Prussian Blue Staining Solution by mixing two parts of **Potassium Ferrocyanide. 2%** (B-161-1A) and three parts of **Hydrochloric Acid. 1%** (B-161-1B). Prepare fresh, just before use.
5. Wash briefly in distilled water until a pink color appears, and drain dry
6. If desired dehydrate, clear and mount with synthetic resin

**STAINING RESULTS:**

Particulate Iron and non-granular  
cytoplasm of many Macrophages:      Blue to Blue-green

Other:      Comparable to original films stained with Wright  
Staining Solution.

**REFERENCES:**

Clark, G Staining Procedures, Williams and Wilkins Co .Baltimore, 3<sup>rd</sup> ed., c. 1973, p.130. Sundberg,. R D and Broman, H., Blood, 10160-6, 1955.