**VETI-STAIN**

**HEMATOLOGY STARTER KIT & REFILL KIT**

Instruction Sheet for both Neat Stain Kit, Starter Kit & Refill Kit

**HEMATOLOGY STARTER KIT (3 X 90 ML) Part Number 10142**  
**HEMATOLOGY THREE STEP REFILL (3 x 500 mL) Part Number 10143**

**INSERT SHEET**

**VETI-STAIN STAINING SET**  
Three-step procedure for differentiation of morphological cell types in peripheral blood smears. Also stains microorganisms and spermatozoa.

**SUMMARY**  
Veti-Stain is a stain set for manual staining of blood smears. The staining characteristics are also similar to the traditional Wright’s and Wright’s Giemsa stains.

Veti-Stain offers the flexibility of a three-to-five dip staining sequence in both the stain and counter-stain solutions.

**STORAGE CONDITIONS**  
Store at controlled room temperature (15-30°C). Keep bottles tightly closed when not in use. Do not use after expiration date specified on box label.

Indication of deterioration  
Mold growth or excessive precipitation in reagents are indications of contamination and/or degradation.

**SPECIMEN COLLECTION AND PREPARATION**  
Smears prepared from fresh uncoagulated venous or arterial blood should be air-dried. If the smears are not prepared immediately, 2mgs of EDTA/mL of blood sample should be added to prevent coagulation.

**PROCEDURE**  
Materials Provided:  
- Veti-Stain Solution 1  
- Veti-Stain Solution 2  
- Veti-Stain Solution 3

Materials Not Provided  
- Coplin Jars/Staining Dishes  
- Microscope Slides  
- Immersion Oil

**TECHNIQUE**  
1. Transfer each Solution into coplin jars or staining dishes and keep covered when not in use.  
2. Prepare slides as instructed under Specimen Collection.  
3. Dip each slide to be processed for five, one second dips into Solution 1. Allow excess reagent to drain or blot slide.  
4. Repeat this procedure substituting Solution 1 and Solution 2, 3 respectively.  
5. Rinse slides with a Deionized water solution and allow to dry. Examine using immersion oil.

**NOTE:** Staining intensity may be varied by increasing or decreasing the number of dips in Veti-Stain Solution 2 or Solution 3. For a more eosinophilic result (red intensity), increase the number of dips into Solution 2; for a more basophilic result (blue intensity), increase the number of dips into Solution 3. Ideally, five one second dips into each Solution will produce the desired results. Any variation of the procedure other than described above may adversely affect the results.

### Stained Specimen Results

<table>
<thead>
<tr>
<th>Specimen</th>
<th>Nucleus</th>
<th>Granules</th>
<th>Cytoplasm</th>
<th>Specimen</th>
<th>Nucleus</th>
<th>Granules</th>
<th>Cytoplasm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Erythrocytes</td>
<td>NA</td>
<td>NA</td>
<td>pink</td>
<td>Leukocytes</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Leucocytes</td>
<td></td>
<td></td>
<td></td>
<td>Nongranular</td>
<td>violet</td>
<td>medium blue</td>
<td></td>
</tr>
<tr>
<td>Granular</td>
<td></td>
<td></td>
<td></td>
<td>Monocytes</td>
<td>violet</td>
<td>NA</td>
<td>light blue</td>
</tr>
<tr>
<td>Polymorphonuclear</td>
<td>purple</td>
<td>red-lilac</td>
<td>light pink</td>
<td>Lymphocytes</td>
<td>violet</td>
<td>NA</td>
<td>blue/violet</td>
</tr>
<tr>
<td>Neutrophils</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>light blue</td>
<td>NA</td>
<td></td>
</tr>
<tr>
<td>Basophils</td>
<td>dark blue</td>
<td>dark purple</td>
<td>light blue</td>
<td></td>
<td></td>
<td>purple</td>
<td></td>
</tr>
<tr>
<td>Eosinophils</td>
<td>dark blue</td>
<td>red/orange</td>
<td>medium blue</td>
<td></td>
<td></td>
<td>lilac</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Microorganisms</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Spermatozoa</td>
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</tr>
</tbody>
</table>

Precautions: Veti-Stain Fixative Solution contains methyl alcohol and is a Flammable Liquid.  
Danger – Poison May Be Fatal or Cause Blindness if Swallowed. Vapor is Harmful and Will Cause Eye Irritation.

Do not breathe vapor. Avoid contact with eyes, skin, or clothing. Keep container closed. Use with adequate ventilation. Keep from heat, sparks and open flame. Wash thoroughly after handling. Cannot Be Made Nonpoisonous

First Aid: If swallowed, call a physician immediately. In case of contact with eyes, immediately flush with water for 15 minutes and notify a physician. Wash exposed areas thoroughly after handling.

WARNING: Solution I contains trace amounts of sodium azide which may react with copper and lead plumbing to form highly explosive metal azides. On disposal, flush with a large volume of water to prevent azide build-up.

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