Eosinophil (Hansel) Stain Insert Sheet
Catalog #ES852, ES936

SUMMARY:
A simple procedure for the staining and examination of nasal smears, urine, sputum, or stool for the presence of Eosinophils according to guidelines established by the College of American Pathologists. Eosinophils can be easily distinguished from other granulocytes when submitted to a cytochemical stain. Hansel Stain, a combination of Eosin and Methylene blue stains, will cause eosinophil granules to stain red-orange while the remaining cells and background material will stain blue.

STORAGE CONDITIONS:
Store at controlled room temperature (15-30°C). Keep bottle tightly closed when not in use. Do not use after expiration date specified on bottle label. Excessive precipitation in reagent is an indication of degradation.

SPECIMEN COLLECTION AND PREPARATION:
Nasal secretions taken preferably from both nostrils. Mucoid gross masses are preferred over thin-watery material. Specimens may be obtained by swabbing the area with a wire swab or by having patient blow nose on wax paper. Apply mucoid material to glass slide. Urine or other body fluids may be centrifuged in a cytology spin centrifuge for cell concentration. Mucous from fecal material can be applied to a slide with a cotton swab and allowed to air dry before staining.

MATERIALS PROVIDED:  
Eosinophil Stain (ES852, ES936)

MATERIALS REQUIRED AND NOT PROVIDED:
DI Water or Phosphate buffer pH 6.4  
Microscope slides  
Staining Rack  
Immersion oil

PROCEDURE:
1. Place a prepared slide on a stain rack over sink.
2. Prepare slides as instructed under Specimen Collection.
3. Flood each specimen slide with approx. 1 mL of the stain solution for a minimum of 25 to 30 seconds. Staining time can be extended for a thicker smear.
4. Repeat this procedure by adding an equal amount of deionized water or phosphate buffer directly to the stain solution on the slide. Allow to-stand for 30 seconds or longer for thicker smears.
5. Rinse with deionized water to remove excess stain. If staining is too dark, quickly rinse with methanol (5 seconds) to remove excess stain careful not to decolorize. Blot edges of slide and allow to air dry. Examine using immersion oil.

EXPECTED RESULTS:

<table>
<thead>
<tr>
<th>Cell Type</th>
<th>Nucleus</th>
<th>Granules</th>
<th>Cytoplasm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eosinophil</td>
<td>Dark blue</td>
<td>Red-orange</td>
<td>Medium blue</td>
</tr>
<tr>
<td>Neutrophil</td>
<td>Purple</td>
<td>Red-lilac</td>
<td>Light pink</td>
</tr>
</tbody>
</table>

DANGER! Flammable liquid. Contains methyl alcohol. May be fatal or cause blindness if swallowed or absorbed through skin. 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.

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. See SDS for more information.

Limited Warranty:
All products are warranted to perform as described in their labeling and corresponding literature. All other warranties expressed or implied, including the warranty of merchantability and fitness for use are excluded. In no event shall Azer Scientific, Inc. be liable for any indirect or consequential damages.

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