SIGMA-ALDRICH®

WRIGHT STAIN SET
(Procedure No. WSHT)

INTENDED USE

Wright Stain Set, is specifically designed for use with the Miles Hema-Tek® and Hema-Tek® 1000 and 2000 Automated Slide Stainers. Wright Stain reagents are for "In Vitro Diagnostic Use."

When blood films are stained as described in the procedure, the white blood cell nucleus and cytoplasm take on characteristic blue or pink coloration. The purified dyes in the product eliminate inconsistent staining and yield lot-to-lot reproducible response.

REAGENTS

THIAZINE DYE SOLUTION, Catalog No. T3272-250 ml
Methanolic solution of a thiazine dye, 0.1% w/v.

XANTHENE DYE SOLUTION, Catalog No. X2251-475 ml
Buffered solution of a xanthene dye, 0.05% w/v, with surfactant, pH 6.5. Sodium azide, 0.02%, added as preservative.

RINSE SOLUTION 2, Catalog No. RS2-900 ml
Ethanol solution, 18% w/v, with surfactant. Sodium azide, 0.02%, added as preservative.

STORAGE AND STABILITY:

Store reagents at room temperature (18-26 °C). Reagents are stable until expiration date shown on the label.

DETERIORATION:

Discard if turbidity develops.

PREPARATION:

Wright Stain Set is supplied ready for use.

PRECAUTIONS:

Normal precautions exercised in handling laboratory reagents should be followed. Dispose of waste observing all local, state, provincial or national regulations. Refer to Material Safety Data Sheet and product labeling for any updated risk, hazard or safety information.

PROCEDURE

SPECIMEN COLLECTION:

It is recommended that specimen collection be carried out in accordance with CLSI document M29-A3. No known test method can offer complete assurance that blood samples or tissue will not transmit infection. Therefore, all blood derivatives or tissue specimens should be considered potentially infectious.

Fresh whole blood films or fresh films from blood using EDTA as an anticoagulant must be used.

SPECIAL MATERIALS REQUIRED BUT NOT PROVIDED:

Miles Hema-Tek® or Hema-Tek® 1000 and 2000 Stainer
Microscope
Microscope slides

NOTES:

These settings have given satisfactory results in our laboratory. Individual preferences may dictate pump adjustments. If stain is too light, increase settings on Pump 1 until satisfactory color is obtained. For optimum results, it is recommended that the setting for Pump 2 does not exceed the setting for Pump 1.

Positive control slides should be included in each run.

The data obtained from this procedure serves only as an aid to diagnosis and should be reviewed in conjunction with other clinical diagnostic tests or information.

PROCEDURE:

1. General instrument set-up and use is as described in the Miles Hema-Tek® procedure manual.
2. Thiazine Dye Solution: Remove cap, leaving inner seal on bottle to minimize moisture pick-up. Insert cannula from Pump 1 directly through seal.
   Pump Setting: –3 (maximum counterclockwise position of volume control knob).
3. Xanthene Dye Solution: Remove cap, leaving inner seal on bottle. Insert cannula from Pump 2 directly through seal.
   Pump Setting: –3 (maximum counterclockwise position of volume control knob).
4. Rinse Solution 2: Remove cap, leaving inner seal on bottle. Insert cannula from Pump 3 directly through seal.
   Pump Setting: –3 (maximum counterclockwise position of volume control knob).

PERFORMANCE CHARACTERISTICS

Nuclei will be varying shades of purple. Cytoplasmic staining will be varying shades of blue to light pink. Fine reddish to lilac granules may be present in cytoplasm of some cell types. Basophils will demonstrate dark blue to black granules in the cytoplasm. Eosinophils will demonstrate bright orange granules in the cytoplasm. Red blood cells should be pink to orange.[1]

If observed results vary from expected results, please contact Sigma-Aldrich Technical Service for assistance.

REFERENCES

1. Hematology: Principles and Procedures, Sixth Edition, Brown AB, Lea & Febiger, Philadelphia 1993 p101

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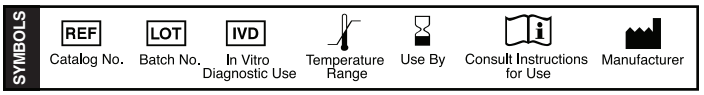

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