

INTENDED USE

Wright-Giemsa Stain Set, Catalog No. WGHT, is specifically designed for use with Miles Hema-Tek[®], Hema-Tek[®] 1000 and 2000 automated slide stainers. Wright-Giemsa Stain reagents are for "In Vitro Diagnostic Use."

Blood films stained as described in the procedure take on characteristic Romanowsky coloration. The purified dyes in the product eliminate inconsistent staining and yield lot-to-lot reproducible chromogenic responses.

REAGENT

WRIGHT-GIEMSA STAIN, Catalog No. W 4501

Wright-Giemsa stain, 0.15%, in methanol with stabilizers.

RINSE SOLUTION 1, Catalog No. R 2381

Phosphate buffered solution. Sodium azide, 0.02%, added as preservative.

RINSE SOLUTION 2, Catalog No. RS-2

Ethanol Solution, 18% v/v, with surfactant. Sodium azide, 0.02%, added as preservative.

STORAGE AND STABILITY:

Store Wright-Giemsa Stain Set at room temperature (18-26 °C). Box label bears expiration date.

DETERIORATION:

Discard Wright-Giemsa Stain if a precipitate develops. Discard Rinse Solutions 1 and 2 if turbidity develops.

PREPARATION:

Reagents are supplied ready to 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 for any updated risk, hazard or safety information.

US Risk and Safety Statements

Wright-Giemsa Stain is **FLAMMABLE** and **TOXIC**. May cause cancer. May cause heritable genetic damage. Irritating to eyes, respiratory system and skin. Toxic: Danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed. Avoid exposure – obtain special instructions before use. Keep container tightly closed. Take precautionary measures against static discharges. Keep away from sources of ignition – no smoking. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Wear suitable protective clothing and gloves.

Rinse Solution 1 is an **IRRITANT**. Irritating to eyes, respiratory system and skin. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing and gloves.

Rinse Solution 2 is **COMBUSTIBLE** and **HARMFUL**. Flammable. Harmful if swallowed. Irritating to eyes, respiratory system and skin. Keep away from sources of ignition – no smoking. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing and gloves.

EU Risk and Safety Statements (Caution: Substances not yet fully tested)

Wright-Giemsa Stain is **HIGHLY FLAMMABLE** and **TOXIC**. Highly flammable. Toxic by inhalation, in contact with skin and if swallowed. Toxic: Danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed. Keep container tightly closed. Keep away from sources of ignition – no smoking. Wear suitable protective clothing and gloves. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

Rinse Solution 2 is an **IRRITANT**. Flammable. Irritating to eyes, respiratory system and skin. Keep away from sources of ignition – no smoking. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing and gloves.

PROCEDURE

SPECIMEN COLLECTION:

It is recommended that specimen collection be carried out in accordance with NCCLS document M29-A2. 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 anticoagulant.

SPECIAL MATERIALS REQUIRED BUT NOT PROVIDED:

Miles Hema-Tek[®], Hema-Tek[®] 1000 or 2000 Stainer

Microscope

Microscope slides

NOTES:

1. These settings have given satisfactory results in our laboratory. Individual color preferences may necessitate volume control adjustments.
2. Positive control slides should be included in each run.
3. 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[®], Hema-Tek[®] 1000 or 2000 procedure manuals.
2. **WRIGHT-GIEMSA STAIN:** Remove cap. Leave 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 dial).
3. **RINSE SOLUTION 1:** Remove cap. Leave inner seal on bottle, insert cannula from Pump 2 directly through seal.
Pump Setting: -3 (Maximum counterclockwise position of volume control dial).
4. **RINSE SOLUTION 2:** Remove cap. Leave inner seal on bottle, insert cannula from Pump 3 directly through seal.
Pump Setting: -3 (Maximum counterclockwise position of volume control dial).

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 black granules in the cytoplasm. Eosinophils will demonstrate bright orange granules in the cytoplasm. Red blood cells should be pink to orange.'

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

Hema-Tek[®] is the registered trade mark of Bayer Diagnostics, successor to Miles Laboratories, Inc. Corporation.

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