

This procedure is available in kit form from:
Poly Scientific R&D Corp.
70 Cleveland Avenue • Bay Shore, NY 11706
(631) 586-0400

cat# cy012

FEULGEN REACTION FOR NUCLEIC ACIDS

SOLUTIONS:

1. Hydrochloric Acid (Normal)
2. Schiff's Reagent
3. Sodium Meta-Bisulfite 0.05M Solution
4. Fast Green 0.01% Alcoholic

STAINING PROCEDURE:

1. Bring paraffin sections through Xylene and Alcohols to water as usual, with the usual iodine – thiosulfate sequence for removal of mercurial precipitates if required, or use alcohol-fixed smears.
2. Place in Hydrochloric Acid (Normal) preheated at 60°C for 10 minutes.
3. Immerse in Schiff's Reagent for 10 minutes.
4. Wash in 3 changes of Sodium Meta-Bisulfite 0.05M Solution for 2 minutes each. (The baths should be discarded daily).
5. Wash for 5 minutes in running water.
6. Counterstain in Fast Green 0.01% Alcoholic for a few seconds. The stain does not wash out in alcohol, but if it is too intense, it may be removed promptly in water.
7. Complete the dehydration with 100% Alcohol.
8. Clear through 1 change of Xylene-Alcohol and 2 of Xylene.
9. Mount with Poly Mount (cat# s2153) or any other acceptable mounting medium.

RESULTS:

Nuclear Chromatin Deep Red-Purple