medilines

Foulgen Colour

for DNA (Nucleic acid)

DESIGN TO DEMONSTRATE DNA

REAGENTS & PREPARATIONS

Feulgen Hydrolyser	**:**	Ready to use.
Feulgen Colour	**:**	Ready to use.
Feulgen Rinse	**:**	Ready to use.
Feulgen CS	**:**	Ready to use.

TISSUE SAMPLE

4-5µ paraffin sections of neutral buffered formalin fixed tissue are suitable. Many other fixatives are satisfactory. Fixatives containing strong acids should be avoided as this method depends on the acid hydrolysis of DNA, and acids in some fixatives may pre-hydrolyse the tissue (for example picric acid in Bouin's aqueous formal-picric-acetic mixture).

STAINING PROCEDURES

1. Remove Paraffin and bring sections to distilled water.
2. Place into the **Feulgen Hydrolyser** for 40 minutes at room temperature.
3. Rinse in distilled water.
4. Stain with **Feulgen Colour** for 10 minute.
5. Three rinses of 1 min each in **Feulgen Rinse**.
6. Wash well with Distilled Water.
7. Counterstain with **Feulgen CS** for 1 minute
8. Dehydrate with ethanol clear with xylene and mount with a resinous medium.

EXPECTED RESULTS

DNA	– Red
Background	– Green

NOTES

- If Fixative contains Hg then in step 1, Remove Paraffin and bring sections to distilled water followed by usual iodine thiosulfate sequence.

Reference

Pearse, A. G. E., (1968, 1972)
Histochemistry: Theoretical and Applied, Ed. 3
Churchill Livingstone, Edinburgh, London, UK