

FEULGEN REACTION FOR DNA

Histochemical Method

50 Tests

PRINCIPLE :

Acid hydrolysis, designed to separate selectively 2 purine bases, namely adenine and guanine, from DNA molecule; staining of apurinic acid resulting from hydrolysis with Schiff reagent. This reagent can be used since free deoxyribose changes to aldehyde in acid environment. Feulgen reaction is highly selective for DNA. Moreover, this reaction allows a very precise localisation of DNA .

REAGENTS :

1.	Hydrochloric acid solution	25 ml
2.	Schiff reagent	25 ml
3.	Fixative solution	25 ml
4.	Counterstain	25 ml

STABILITY :

Stable until the expiry date specified when stored at +4 to +8 °C

PROCEDURE :

1. Bring section to distilled water Put on the section 10 drops of R1, leave to act 10 minutes.

Double washing in distilled water

2. Put on the section 10 drops of R2, leave to act 10 minutes .
3. Drain the slides without washing and put on the section 10 drops of R3 , leave to act 2 minutes .

Wash in running tap water for 5 min .

4. Counterstain, if required, put on section 10 drops of reagent (4) for two minutes, then wash with distilled water .

Dehydrate through ascending alcohols; clear in xylene and mount

RESULTES :

Nuclear DN : appears reddish purple

Cytoplasm : green .

REFERENCE :

De Tomasi JA. Improving technique of the Feulgen stain . Stain Technol 1936; 11: 37 .

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+4 to +8°C	50 Tests
CAT. No.	FR 26 16

REAGENTS

R1	Hydrochloric acid	25 ml
R2	Schiff reagent	25 ml
R3	Fixative solution	25 ml
R4	Counterstain	25 ml

CONTACTS

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