

METHYL GREEN - PYRONIN For DNA and RNA

Histochemical Method

100 Tests

APPLICATION :

To demonstrate simultaneously DNA and RNA in histologic sections. Recommended to show plasma cells and RNA in histologic sections and cytologic preparations .

PRINCIPLE :

In this method, staining is obtained with a mixture of 2 basic dyes: purified methyl green and pyronin Y. In order to obtain a differential stain, a buffer is added to the solution to reach pH 4,8. If pH is lower than 4,8 a red stain caused by pyronin prevails; if pH is higher a green – blue stain caused by methyl green prevails. The 2 dyes are not intrinsically affine to DNA and RNA; their selectivity is a consequence of a definite pH value.

- Don't use fixatives with a formaldehyde concentration higher than 10 % .
- Never use acid fixatives .
- It is essential to avoid to use high temperature .

REFERENCE:

Kurnick, N.B. Stain Technol, 30; 213 – 230; 1955
Kurnick, N.B. J Gentile Physiol, 33: 243 – 264 ; 1950 .

REAGENTS :

Methyl green pyronin buffered solution	50 ml
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METHOD :

1. Wash the slides in running tap water .
2. Rinse in distilled water .
3. Put on the section 10 drops of reagent leave to act 10 minutes .
4. Rinse quickly in distilled water and dry the slide with filter paper first, then the air for 10 minutes .
5. Clear twice in xylene and mount .

RESULT :

DNA		Pale green
RNA		Pink and red

**Methyl Green - Pyronin
For DNA and RNA**

Histochemical Method
+15 to +25°C **100 Tests**

CAT. No. MP 26 18

FOR RESEARCH USE

REAGENT

Methyl green pyronin 50 ml

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