



Protocol n° 96

Shorr Staining

Principle:

This staining associates a nuclear stain and a cytoplasmic stain by only one stain: Shorr Solution. This fast technique is used principally in hormonal cytology.

Necessary staining products:

| | |
|-------------------------------------------|-----------------------|
| CytoRAL aerosol Ref. 361400- | 0075 or 0150 mL |
| CytoRAL vaporiser Ref. 361415- | 0100 mL |
| Shorr Solution Ref. 361100- | 0500, 1000 or 2500 mL |
| HistoRAL, mounting medium Ref. 361210- | 500 mL |

Specimen preparation:

Specimen must be processed in accordance with procedures available in the laboratory and promulgated by national Authorities.

Staining procedure:

Please read all this information carefully before using this device.

If the smear was fixed by Cytofixer, Remove Cytofixer by dipping the slide in 50°-Alcohol during 20 to 30 minutes.

The staining is realised on wet smears

- Stain the smear in Shorr Solution during 1 to 5 minutes
- Pass in a bath of 70°-Alcohol
- Pass in a bath of 95°-Alcohol
- Pass in a bath of absolute alcohol

- Pass in Toluene or Xylene
- Mount the slide with Toluene or Xylene based mounting medium

Results:

Nuclei: More or less dark violet-blue

Cytoplasm

Eosinophilic cells: Orangey to brown

Cyanophilic cells: Pale green to dark green

Recommendations and/or Note of use:

For professional use only.

In vitro use only.

The collection and processing of chemical biological waste must be conducted by specialized and registered companies.

Storage: 15 – 25 °C.

Staining times may vary according to the nature of the smear, or may be modified depending on the frequency of use, the desired staining intensity and the staining material used.

Although the results are less good than on wet smears, dry smears, fixed in the open air, could be coloured. In this case, add the 2 following steps before the above procedure:

- Re-hydrate the slide in distilled water for 24 hours
- Fix with Alcohol-Ether for at least 24 hours

Then begin the procedure as described above for wet smears.

Bibliography:

BOON M.E., DRUIVER J.S., *Routine Cytological Staining Techniques*, éd. MACMILLAN EDUCATION LTD, 1986, p. 47-48, p. 61-63 et p. 71-79.

HOULD R., *Techniques d'histopathologie et de cytopathologie*, éd. Maloine – Décarie, 1984, p. 312-313.