



Instructions For Use

PAP-IFU

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Papanicolaou (PAP) Stain Kit

Description and Principle

The Papanicolaou (PAP) Stain Kit is designed to differentiate between a variety of cells in vaginal smears for detection of vaginal, uterine and cervical cancer. In addition, this procedure is valuable for staining a variety of other bodily secretions and cell smears. The procedure was developed in the early 1940's by George Papanicolaou.

Papanicolaou (PAP) Stain Kit utilizes a combination of stains visualize nuclear and cytoplasmic detail of cytology specimens. Nuclei are rapidly and progressively stained by a Mayer's hematoxylin solution. Orange G in an alcohol solution with phosphotungstic acid stains keratinized cells bright orange. EA-50 stain solution is a polychrome cytoplasm stain that stains cells varying shades of pink and blue/green due to differences in dye penetration rates.

Expected Results

| | |
|---------------------|---------------------------------------|
| Nuclei: | Blue |
| High Keratin Cells: | Orange |
| Superficial Cells: | Pink |
| Erythrocytes: | Dark Pink |
| Parabasal Cells: | Blue/Green |
| Intermediate Cells: | Blue/Green |
| Metaplastic Cells: | May contain both Blue/Green and Pink. |

Kit Contents

| | |
|---|---------|
| 1. Hematoxylin, Mayer's (Lillie's Modification) | 18-25°C |
| 2. OG-6 Solution | 18-25°C |
| 3. EA-50 Stain Solution | 18-25°C |

Storage

Suggested Controls (not provided)

Gynecological Smear, Any Superficial Cell Smear.

Uses/Limitations

For In-Vitro Diagnostic use only.

Do not use if reagents become cloudy or precipitate

Do not use past expiration date.

Use caution when handling reagents.

Non-Sterile

Intended for FFPE sections cut at 5-10µm.

This procedure has not been optimized for frozen sections.

Frozen sections may require protocol modification.

Storage

Store all components at room temperature (18-25°C).

Safety and Precautions

Please see current Safety Data Sheets (SDS) for this product and components GHS classification, pictograms, and full hazard/precautionary statements.

Procedure:

1. Place slide in 95% alcohol for 5 minutes.
2. Place slide in 70% alcohol for 5 minutes.
3. Place slide in distilled water for 2 minutes.
4. Apply Hematoxylin, Mayer's (Lillie's Modification) for 5 minutes.




Oral squamous cells viewed at 40X with the Papanicolaou (PAP) Stain Kit.


5. Rinse slide 1 time in distilled water to remove excess stain.
6. Rinse slide in tap water for 2 minutes.
7. Rinse slide in 2 changes of distilled water.
8. Dip slide several times in 95% alcohol and blot excess off.
9. Apply OG-6 Stain Solution for 2 minutes.
10. Rinse slide gently using absolute alcohol.
11. Apply EA-50 Stain Solution for 3 minutes.
12. Rinse slide gently using absolute alcohol.
13. Quickly dehydrate slide in 3 changes of absolute alcohol.
14. Clear slide and mount in synthetic resin.

References

1. Papanicolaou, G.N. Atlas of Exfoliative Cytology, Harvard University Press, Cambridge, 1954.

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