ScyTek LABORATORIES INC.

# 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 detain 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

| | Storage |
|---|---|
| 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 |

### 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 stained 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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