

**PRODUCT CODE**  
**BS017**

**APPLICATION**

Papanicolaou EA50 is a differential stain for the cytological study of smears from the female reproductive tract, Sputum and body fluids. Often used for screening vaginal smears with malignant cells.

**REAGENT COMPOSITION:**

Light green solution	50 mL
Bismark brown	10 mL
Eosin Y	40 mL
Phosphotungstic acid	0.2 g
Lithium carbonate, saturated solution	1 drop

**REAGENT PREPARATION**

It is recommended to filter all stain before use.

**REAGENT STORAGE AND STABILITY**

The reagent is stable up to the stated expiry date when stored at 15-25° C. Keep tightly closed to prevent air oxidation.

**PROCEDURE**

Using ether/alcohol fixed smears

- 1- Treat with 95% alcohol for 1 minute.
- 2- Treat with 70% alcohol for 2 minutes.
- 3- Treat with distilled water for 3 minutes.
- 4- Treat with Harris' Haematoxylin (Bio Research, Product Code: BS010) for 2 ½ minutes and rinse in tap water for one minute.
- 5- Treat with 10% Acid Alcohol for 3 seconds and rinse in tap water for 2 minutes.
- 6- Treat with ammoniated water for 1 minute and rinse in tap water for 3 minutes.
- 7- Treat with 70% alcohol and 95% alcohol for 2 minutes each.
- 8- Stain with OG6 Stain (Bio Research, Product Code: BS019) for 30 seconds.
- 9- Treat with 95% alcohol for 30 seconds.
- 10- Stain with EA 50 for 1 ½ minutes.
- 11- Treat with 95% alcohol for 30 seconds.
- 12- Treat with Absolute Alcohol for 1 minute.
- 13- Treat with Xylene for 2 minutes.
- 14- Mount in synthetic mounting medium















**RESULTS**

Nuclei	Blue
Superficial Cells	Pink
Intermediate Cells	Green
Candida (Monilia)	Red
Rionomonads	Grey-green
Parabasal Cells	Deep-green
Red Blood Cells	Orange

**NOTES**

- 1- This method is designed to give sharp nuclear staining, transparency of cytoplasm and good differential coloring to acidophilic and basophilic cells.
- 2- In gynecology, solution EA50 and EA36 are predominantly used for cancer detection. The EA65 is used for mucous smear such as sputum and bronchial and intestinal fluid.

**SYMBOLS ON LABELS**

Symbols	Signify	Symbols	Signify
	Catalogue Number		Pack Size
	Expiry Date		Volume
	Storage Condition		Lot Number
	Instruction for Use		In Vitro Diagnostics
	Manufacturing Date		Manufacturer
	Number of Tests		For Single Use Only
	EC Representative		European conformity

**REFERENCE**

Papanicolaou, G.N: science 95: 438-439