Sperm Wizard®
MODIFIED PAPANICOLAOU STAIN PROCEDURE

Item# SW500 (also CUKTCYP)

**PRINCIPLE:** This stain procedure delineates the acrosome, head, mid-piece, and tail of sperm.

**SPECIMEN:** Semen smear fixed in 95% Reagent Alcohol or cytology fixative.

**PROCEDURE NOTES:**
1. For Tap water rinse steps, submerge slide into dish filled with tap water and then place the dish under a gently running tap for the time indicated.
2. Shake slide gently between changes to remove excess liquid and prevent carry over into next dish.
3. Change alcohols and Master*Clear when discolored for best stain clarity.
4. **IMPORTANT:** Change all rinse waters between staining runs!

**PROCEDURE:**
1. Soak slide in one change of 95% Reagents Alcohol for 15 minutes.
2. Soak slide in one change of 80% Reagents Alcohol for 1 minute.
3. Rinse slide in gently running Tap water for 5 to 10 seconds.
4. Soak slide in one change of Distilled water for 1 minute.
5. Soak slide in Modified Mayer’s Hematoxylin for 5 minutes.
6. Rinse slide in gently running Tap water for 3 minutes.
7. Soak slide in two changes of 95% Alcohol for 20 seconds in each change.
8. Soak slide in EA-50 Cytology Stain for 5 minutes.
9. Soak slide in 4 changes of 100% Reagents Alcohol for 20 seconds in each change. **NOTE:** Overfill containers to insure that all water is removed before the slides are placed into Master*Clear!
10. Soak slide in 2 changes of Master*Clear for 2 minutes in each change.
11. Soak slide in 1 change of Master*Clear for 3 minutes.

**EXPECTED RESULTS:**
- Sperm Head: **PURPLE**
- Acrosome: **LIGHT PURPLE**
- Mid-Piece: **RED**
- Tail: **RED to REDDISH-BLUE**

An atlas of sperm morphology and training in sperm classification is available from Fertility Solutions as SW400 SpermCONFIRM Morphology Classification Method.

**REFERENCE:** Fertility Solutions Semen Staining Procedure (Modified Papanicolaou Stain)