

American MasterTech

scientific laboratory supplies

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HEMATOXYLIN PHLOXINE-SAFFRON PROCEDURE

(Revised 02/20/18)

PRINCIPLE: This procedure demonstrates nuclei, cytoplasm, collagen and muscle.

SPECIMEN: Any well fixed paraffin embedded tissue cut at 4 to 5 microns.

QUALITY CONTROL: American MasterTech Scientific Recommended Control Slide:

Heart, CSH0725P; Skeletal Muscle, CSS0725P; Uterus, CSU0325P

PROCEDURE NOTE: If using a **Xylene Substitute**, deparaffinize slide for 10 minutes in each change

with agitation; clear for 2 minutes in each change with agitation.

PROCEDURE:

1. Deparaffinize slide in 2 changes of Xylene at 5 minutes each.

- 2. Place slide in 3 changes of Absolute Alcohol for 1 minute each with agitation.
- 3. Place slide in 95% Reagent Alcohol for 1 minute with agitation.
- 4. Rinse slide in running Tap water for 1 minute.
- 5. Place slide in **Harris** or **Gill's 2 Hematoxylin** for 5 minutes.
- 6. Rinse slide in running Tap water for 1 minute.
- 7. Dip slide 2 to 3 times in **Differentiating Solution**.
- 8. Rinse slide in running Tap water for 1 minute.
- 9. Place slide in **Bluing Solution** for 30 to 40 seconds.
- 10. Rinse slide in running Tap water for 2 to 3 minutes.
- 11. Place slide in 1.5% Phloxine B Solution for 2 minutes.
- 12. Rinse slide in Tap water for 5 minutes.
- 13. Dehydrate slide through 3 changes of Absolute Alcohol.
- 14. Place slide in 2% Alcoholic Saffron Solution for 5 minutes.
- 15. Dehydrate slide through 3 changes of Absolute Alcohol for 1 minute each.
- 16. Clear slide through 3 changes of Xylene for 1 minute each.
- 17. Coverslip using a permanent mounting media.

RESULTS:

Nuclei: **BLUE**Cytoplasm, muscle: **RED**Collagen: **YELLOW**

Red blood cells: BRIGHT PINK TO RED

REFERENCE: Sheehan DC Hrapchak BB; Theory and practice of Histotechnology; 1980, 154.

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