



MASSON TRICHROME STAIN

Paraffin-embedded, formalin fixed tissue

Notes: Muscle fibers, keratin, fibrin ----- red
Nuclei ----- black
Collagen ----- blue

SOLUTIONS:

Bouin's Solution

Bouin's solution – Fisher Scientific: NC0827069

Modified Weigert's Iron Hematoxylin

Solution A

Hematoxylin crystals, C.I. 75290 ----- 4.0 g
Alcohol, 80% -----200 ml

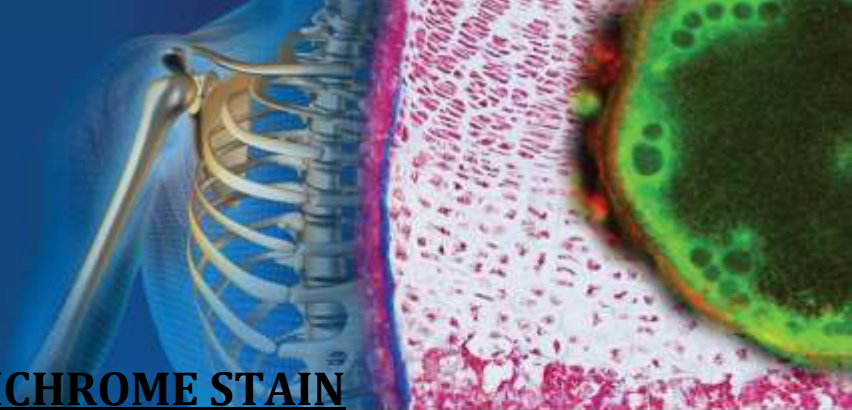
Solution B

Ferric chloride (EMS 15510) ----- 8.0 g
Distilled water -----190 g
HCl, concentrated 36.5-38% -----2.0 ml

Working Modified Weigert's Iron Hematoxylin

Equal parts of Solution A and Solution B mixed well, keep in dark.

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Biebrich Scarlet-Acid Fuchsin Solution

Biebrich scarlet, C.I. 26905 -----	2.25 gm
Acid fuchsin, C.I. 42685 -----	0.25 gm
Acetic acid, glacial -----	2.5 gm
Distilled water -----	250 ml

1% Phosphomolybdic Acid Solution

Phosphomolybdic acid -----	2.5 gm
Distilled water -----	250 ml

1.8 % Aniline Blue Solution

Aniline blue, C.I. 42755 -----	4.5 gm
Acetic acid, glacial -----	4.5 ml
Distilled water -----	250 ml

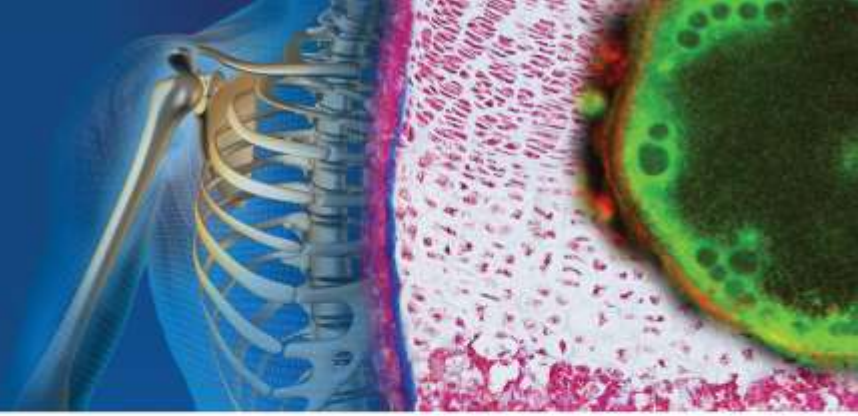
1% Acetic Acid Solution

Acetic acid, glacial -----	2.5 ml
Distilled water -----	250 ml

Acid-Alcohol Differentiation Solution

0.5% hydrochloric acid in 70% alcohol

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STAINING PROCEDURE:

1. Deparaffinize and hydrate to distilled water
2. Mordant in Bouins's solution which has been preheated to 58° C for **15 minutes**
3. Wash slides with distilled water
4. Modified Weigert's Iron Hematoxylin (keep in dark) for **5 minutes**
5. Wash with **3-4 changes** of distilled water
6. Differentiate in acid-alcohol solution for **3-5 seconds**
7. Wash slides with **3-4 changes** of distilled water
8. Biebrich Scarlet-Acid Fuchsin solution for **5 minutes**
9. Rinse in **3 changes** of distilled water
10. 1% Phosphomolybdic acid solution for **2 minutes**
11. Aniline Blue solution for **5 minutes**
12. Rinse with **1 change** of distilled water
13. Acetic acid solution for **30 seconds**
14. Rinse with **2 changes** of distilled water
15. Dehydrate in graded alcohols
16. Clear in Xylene
17. Coverslip

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