



FAST Stain for Spinal disc

SOLUTIONS:

1% Alcian Blue 8GX (pH 1.0)

Alcian Blue 8GX-----	2.5 g
Distilled water -----	225 ml
1N Hydrochloric acid -----	25 ml
(1N Hydrochloric acid: Distilled water-----	915ml)
Concentrated Hydrochloric acid-----	85ml)

0.1% Safranin O

Safranin O (CAS# 477-23-6) -----	0.25 g
Distilled water -----	250.0 ml

0.25% Tartrazine (in 0.25% Acetic Acid)

Tartrazine-----	0.625 g
0.25% Acetic acid -----	250 ml
(0.25% Acetic acid: Distilled water-----	997.5ml)
Glacial Acetic acid-----	2.5ml)

0.001% Fast Green

Fast Green-----	0.0025g
Distilled water-----	250 ml

2/2020



UNIVERSITY of
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MEDICINE of THE HIGHEST ORDER



FAST Stain for Paraffin Sections

STAINING PROCEDURE:

1. Deparaffinize slides and rehydrate through graded ethanols to distilled water.
2. Place slides in 1% Alcian blue 8GX (pH 1.0) for **2.5 minutes**.
3. Rinse in 3 changes of distilled water.
4. Place slides in 0.1% Safranin-O for **3 minutes**.
5. Rinse in 3 changes of distilled water.
6. Color differentiate in 50% ethanol for **1 minutes**.
7. Rinse in 3 changes of distilled water.
8. Place slides in 0.25% Tartrazine (in 0.25% acetic acid) for **10 seconds**.
9. Rinse in 3 changes of distilled water.
10. Counterstain with 0.001% Fast Green for **5 minutes**.
11. Rinse in 3 changes of distilled water.
12. Thoroughly air dry slides, dip one by one in Xylene and mount.

RESULTS:

Growth plate ----- red (blue pericellular)
Bone ----- yellowish green
Annulus Fibrosus (inner) ----- orange with blue patches (blue pericellular)
Annulus fibrosus (superficial) --- greenish blue
Nucleus pulposus ----- blue (orange pericellular)
Cartilaginous endplate ----- Orange (orange pericellular)

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Extended FAST Stain for Paraffin Sections

STAINING PROCEDURE:

1. Deparaffinize slides and rehydrate through graded ethanols to distilled water.
2. Place slides in 1% Alcian blue 8GX (pH 1.0) for **10 minutes**.
3. Rinse in 3 changes of distilled water.
4. Place slides in 0.1% Safranin-O for **3 minutes**.
5. Rinse in 3 changes of distilled water.
6. Color differentiate in 50% ethanol for **1 minutes**.
7. Rinse in 3 changes of distilled water.
8. Place slides in 0.25% Tartrazine (in 0.25% acetic acid) for **10 seconds**.
9. Rinse in 3 changes of distilled water.
10. Counterstain with 0.001% Fast Green for **5 minutes**.
11. Rinse in 3 changes of distilled water.
12. Thoroughly air dry slides, dip one by one in Xylene and mount.

RESULTS:

Growth plate -----	red (blue pericellular)
Bone -----	yellowish green
Annulus fibrosus (A1) -----	greenish blue (blue pericellular)
(A2) -----	greenish blue with blue patches. (blue pericellular with orange halo)
(A3) -----	blue (blue pericellular with orange halo)
(A4) -----	blue (blue pericellular with orange stretch)
Nucleus pulposus -----	blue (orange pericellular with orange halo)
Cartilaginous endplate -----	Orange (blue pericellular)

