



Orcein Stain Kit

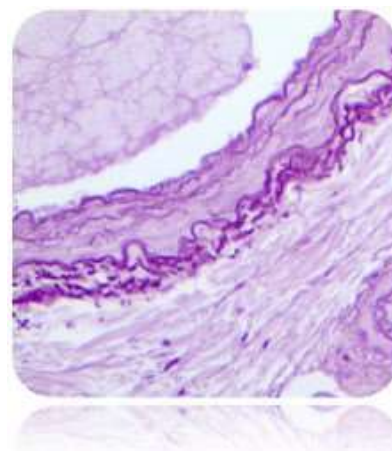
(For Hepatitis B and Elastic Fibers)

Description: The Orcein Stain may be used in histology procedures for the visualization of Hepatitis B surface Antigen (HBsAg), elastic fibers, and copper associated proteins. HBsAg appears as irregular shaped aggregates in the cytoplasmic region of the cells. This reagent may be used on formalin-fixed, paraffin-embedded or frozen sections.

HBsAg: Dark Brown/Purple
Elastic Fibers: Dark Brown/Purple
Copper Assoc. Proteins: Dark Purple
Background: Light Reddish/Purple

Uses/Limitations: Not to be taken internally.
For In-Vitro Diagnostic use only.
Histological applications.
Do not use if reagents become cloudy.
Do not use past expiration date.
Use caution when handling reagents.
Non-Sterile.

Control Tissue: Known hepatitis positive liver.
Lung for elastic fiber.
Any well fixed tissue cut 3-5 microns.



Availability/Contents:

| <u>Kit Contents</u> | <u>Volume</u> | <u>Storage</u> |
|----------------------------------|---------------|----------------|
| Potassium Permanganate Sol. (5%) | 30 ml | 18-25°C |
| Sulfuric Acid Solution (3%) | 30 ml | 18-25°C |
| Oxalic Acid Solution (2%) | 125 ml | 18-25°C |
| Orcein Solution | 125 ml | 18-25°C |
| Differentiating Solution | 125 ml | 18-25°C |

Precautions: Avoid contact with skin and eyes.
Harmful if swallowed.
Follow all Federal, State, and local regulations regarding disposal.

Storage: 18° C  25° C

**Procedure:****Prepare Oxidizing Immediately Prior to Beginning Procedure:**

Combine: 50 ml Distilled Water
 5 ml Potassium Permanganate Solution (5%)
 3 ml Sulfuric Acid Solution (3%)

Mix thoroughly.

1. Deparaffinize sections if necessary and hydrate to distilled water.
2. Incubate slide in freshly prepared Oxidizing Solution for 10 minutes.
3. Rinse slide briefly in running tap water followed by 1 dip in distilled water.
4. Incubate slide in Oxalic Acid Solution (2%) for 10 minutes.

Note: Section should be colorless following this step.

5. Rinse slide for 1 minute in running tap water followed by 2 dips in distilled water.
6. Apply adequate Orcein Solution to cover tissue and incubate slide in Orcein Solution for 2 hours.

Note: Check periodically and apply additional stain as needed to avoid drying.

7. Rinse slide in Alcohol, Reagent (70%).
8. Apply Differentiating Solution for 3-5 seconds.
9. Dip slide in Alcohol, Reagent (70%) and check slide microscopically for proper differentiation.

Note: Repeat step 8 if necessary.

10. Dehydrate quickly in 3 changes of absolute alcohol.
11. Clear, and mount in synthetic resin.

References:


1. Deodhar K.P., Tapp E., Scheuer P.J. Orcein staining of Hepatitis B Antigen in paraffin sections of Liver Biopsies. Journal of Clinical Pathology; vol. 28: pages 66-70, 1975.
2. Salaspuro, M., Sipponen, P. Demonstration of an intracellular copper-binding protein by Orcein staining in long-standing cholestatic liver diseases. Gut, 1976, volume 17: pages 787-790.

Storage: 18° C  25° C



SS1039-VO

| Description: | Volume |
|--------------------------------------|-----------------------------|
| Potassium Permanganate Solution (5%) | 30 ml 125 ml |
| Sulfuric Acid Solution (3%) | 125 ml 500 ml 1000 ml |
| Oxalic Acid Solution (2%) | 500 ml 1000 ml |
| Orcein Solution | 125 ml 500 ml 1000 ml |
| Differentiating Solution | 125 ml 500 ml |
| Alcohol, Reagent (70%) | 500 ml 1000 ml |

Storage: 18° C  25° C