

Hepatitis B Stain Kit

Description: The Hepatitis B Stain Kit is intended for use in the histological visualization of Hepatitis B surface antigen (HBsAg). This kit may be used on formalin-fixed, paraffin-embedded or frozen sections.

HBsAg: Dark Brown

Uses/Limitations: For In-Vitro Diagnostic use only.
Histological applications.
Do not use past expiration date.
Use caution when handling these reagents.

Control Tissue: Any well fixed section 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


Required But Not Included:

Reagent Alcohol (70%)

Precautions: Avoid contact with skin and eyes.
Harmful if swallowed.
Follow all Federal, State, and local regulations regarding disposal.
Use in chemical fume hood whenever possible.

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.

Storage: 18° C  25° C

Store Components at Room Temperature.

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Procedure (Standard):

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. Incubate slide in Orcein Solution for 2 hours.
7. Rinse slide in Reagent Alcohol (70%).
8. Apply Differentiating Solution for 3-5 seconds.
9. Dip slide in Reagent Alcohol (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.

Storage: 18° C  25° C

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