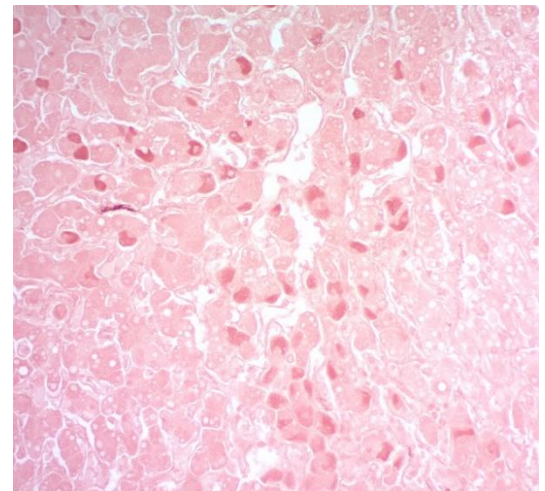


## Orcein Stain Kit

### (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 deposits. HBsAg appears as irregular shaped aggregates in the cytoplasmic region of the cells. This reagent may be used on formalin-fixed, paraffin-embedded sections.

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



Hepatitis B Surface Antigen in Human Liver at 20X stained with the Orcein Stain Kit.

**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.


**Ordering information regarding additional recommended individual components on back page!**

**Availability/Contents:**

| <u>Item #</u> | <u>Kit Contents</u>              | <u>Volume</u> | <u>Storage</u> |
|---------------|----------------------------------|---------------|----------------|
| PPG030        | Potassium Permanganate Sol. (5%) | 30 ml         | 18-25°C        |
| SAQ030        | Sulfuric Acid Solution (3%)      | 30 ml         | 18-25°C        |
| OQB125        | Oxalic Acid Solution (2%)        | 125 ml        | 18-25°C        |
| OAA125        | Orcein Solution                  | 125 ml        | 18-25°C        |
| DSA125        | 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

 ScyTek Laboratories, Inc.  
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CE IVD

EC REP  
Emergo Europe  
Prinsessegracht 20  
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**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 or until clear.

**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 coplin jar containing Orcein solution for 4-8 hours (2 hours is sufficient for elastin). **Note:** Ensure tissue is fully immersed in staining jar. Close lid to prevent evaporation.
7. Rinse slide in Alcohol, Reagent (70%).
8. Differentiate in Differentiating Solution for 10-60 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.


**Note:** If darker staining is preferred:

- 1) Incubation time in Orcein solution may be increased.  
and/or
- 2) Differentiation may be omitted by replacing steps 7-9 with a simple rinse with deionized water.

**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.

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# Instructions For Use HBK-1-IFU

Rev. Date: Dec. 7, 2018


Revision: 3


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
Bulk Reagent Ordering Information and Current Pricing at [www.scytek.com](http://www.scytek.com)

| Description:                         | Catalog # | Volume  |
|--------------------------------------|-----------|---------|
| Potassium Permanganate Solution (5%) | PPG030    | 30 ml   |
|                                      | PPG125    | 125 ml  |
| Sulfuric Acid Solution (3%)          | SAQ125    | 125 ml  |
|                                      | SAQ500    | 500 ml  |
|                                      | SAQ999    | 1000 ml |
| Oxalic Acid Solution (2%)            | OQB500    | 500 ml  |
|                                      | OQB999    | 1000 ml |
| Orcein Solution                      | OAA125    | 125 ml  |
|                                      | OAA500    | 500 ml  |
|                                      | OAA999    | 1000 ml |
| Differentiating Solution             | DSA125    | 125 ml  |
|                                      | DSA500    | 500 ml  |
| Alcohol, Reagent (70%)               | EAS500    | 500 ml  |
|                                      | EAS999    | 1000 ml |

Storage: 18° C  25° C

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