Jones Stain Kit
(For Basement Membrane)

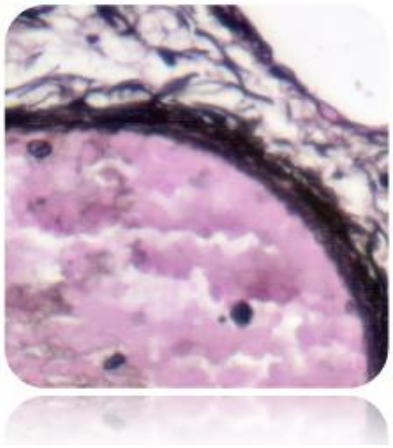
Description:

The Jones Stain Kit is intended for use in histological demonstration of the basement membrane and reticular fibers. This procedure is ideal for staining renal glomerular basement membranes. The main function of the basement membrane and reticular fibers is to provide anchorage and support. They are normally found throughout the body, particularly in the kidney, spleen, and lung.

Basement Membrane:	Black
Reticulum Fibers:	Black
Nuclei:	Red
Cytoplasm:	Light Pink

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:

Kidney cut at 2 microns.
Lung.
Spleen.

Kit Contents:

Item #	Kit Contents	Volume	Storage
SSC-PAQ250	Periodic Acid Solution	250 ml	2-8°C
SSC-MET250	Methenamine Solution	250 ml (2 bottles)	2-8°C
SSC-SNV030	Silver Nitrate Solution (5%)	30 ml	2-8°C
SSC-BOR125	Borax Solution	125 ml	18-25°C
SSC-GCB125	Gold Chloride Solution (0.2%)	125 ml	2-8°C
SSC-STB125	Sodium Thiosulfate Solution (5%)	125 ml	18-25°C
SSC-NFS125	Nuclear Fast Red Solution (Enhanced)	125 ml	18-25°C

Precautions:

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

Important Notes:

1. All glassware used in this procedure should be chemically cleaned and rinsed thoroughly in distilled water.
2. Do not use metal forceps to remove slides from reagents. Use plastic forceps only.
3. Prewarm all reagents to room temperature prior to use.

Procedure:

1. Deparaffinize sections if necessary and hydrate to distilled water.
2. Incubate slide in Periodic Acid Solution for 15 minutes.
3. Rinse in 2 changes of distilled water.
4. Combine the following for a working Silver Methenamine Solution:

   42 ml Methenamine Solution
   2.5 ml Silver Nitrate Solution (5%)
   6 ml Borax Solution

   Note: Mixed solution may not be stored for reuse later.
5. Place working Silver Methenamine Solution in 65° centigrade water bath and allow temperature to equilibrate.
6. Incubate slide in working Silver Methenamine Solution for 60 minutes. Using plastic forceps dip slide in "hot" distilled water and check under a microscope for evaluation of silver impregnation. Basement membrane and reticular fibers should be black. If color is not sufficient, dip slide in "hot" distilled water and return the slide to working Silver Methenamine Solution for 5-10 minutes and check again.
7. Rinse in 4 changes of distilled water.
8. Incubate slide in Gold Chloride Solution (0.2%) for 15-30 seconds.
9. Rinse in 4 changes of distilled water.
10. Incubate slide in Sodium Thiosulfate Solution (5%) for 2 minutes.
11. Rinse in tap water followed by 2 changes of distilled water.
12. Incubate slide in Nuclear Fast Red Solution for 2 minutes.
13. Rinse slide quickly in distilled water.
14. Rinse slide using absolute alcohol.
15. Dehydrate in 3 changes of absolute alcohol, clear, and mount in synthetic resin.

Lot-to-Lot Validation Form
Jones Stain Kit Catalog: SSK-JSK-1

Kit Lot Number: _____

Kit Expiration Date: _____

Date Tested: _____

Control Tissue (#) _____

Approved for Use: Y/N _____

Date put into use:

If not approved, corrective actions taken: _____

Approved by: _____

Kit Component	**Lot #**
Periodic Acid Solution	
Methenamine Solution	
Silver Nitrate (5%)	
Borax Solution	
Gold Chloride (0.2%)	
Sodium Thiosulfate (5%)	
Nuclear Fast Red (enhanced)	

Replacement Component if used	Replacement Date	Lot #	Accepted Y/N	Comments
Periodic Acid Solution				
Methenamine Solution				
Silver Nitrate (5%)				
Borax Solution				
Gold Chloride (0.2%)				
Sodium Thiosulfate (5%)				
Nuclear Fast Red (Enhanced)				
Approved By:				

StatLab is providing this form to assist with reagent lot validation as stated in CLIA'88 Standard 493.1256-For reagent(s), the laboratory must do the following: Check each batch (prepared in-house), lot number (commercially prepared) and shipment of reagents, stains, and identification systems (systems using two or more substrates or two or more reagents, or a combination) when prepared or opened for positive and negative reactivity, if applicable.