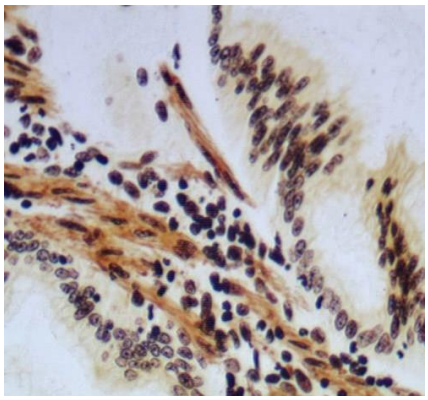
Steiner Stain Kit (For Spirochetes)

Description: The Steiner Stain Kit (For Spirochetes) is designed for demonstrating Fungi, Helicobacter Pylori, Legionella pneumophila, and Spirochete infected tissue. Kit may be used on formalin fixed, paraffin-embedded tissue as well as frozen sections.

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

Control Tissue: Helicobacter Pylori infected stomach.



Results:

Spirochetes:	Black to Brown
Helicobactor Pylori:	Black to Brown
Fungi:	Black to Brown
Legionella pneumophila	Black to Brown
Background:	Yellow to Tan

Kit Contents:

Item #	Kit Contents	Volume	Storage
SSC-SOS125	Oxidizer Solution	125 ml	Room Temperature
SSC-ZFN125	Zinc Formalin Solution	125 ml	Room Temperature
SSC-GUM125	Gum Mastic Solution	125 ml	2-8° Centigrade
SSC-HFS001.5	Hydroquinone	1.5 gm	Room Temperature
SSC-SNS125	Silver Nitrate Solution (0.2%)	125 ml	2-8° Centigrade
SSC-SNY009	Silver Nitrate Solution (1%)	9 ml	2-8° Centigrade

Mixed Storage Conditions. Separate Contents.

For information regarding ordering individual components, please contact us at: 800-442-3573.
Control Slides Available. Catalog: CS-HELI/25, Helicobacter Pylori, 25/pack

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

Procedure (Standard):

Prepare Reducing Solution at Step #10 of this Procedure:

Combine:
25ml 1% Hydroquinone (0.25gm Hydroquinone in 25ml Distilled Water)
15ml Gum Mastic Solution (2.5%)
Mix thoroughly and filter through medium filter paper.
Then Add:
6 Drops (240µl) Silver Nitrate Solution (1%)
Mix thoroughly.

1. Preheat Water Bath to 70° Centigrade.
2. Deparaffinize sections if necessary and hydrate to distilled water.
3. Incubate slide in Oxidizer Solution for 20 minutes.
4. Rinse thoroughly in distilled water.

Note: Place 20 ml of Silver Nitrate Solution (0.2%) in water bath to preheat.

5. Incubate slide in Zinc Formalin Solution for 5 minutes.
6. Rinse thoroughly in distilled water.
7. Incubate slide in preheated Silver Nitrate Solution (0.2%) for 5 minutes at 70° Centigrade. (Note: Discard solution after this step)
8. Rinse slide thoroughly in distilled water.
9. Dehydrate slide in 2 changes of Absolute Alcohol.

Note: Prepare Reducing Solution (above) and place in water bath to preheat.

10. Incubate slide in Gum Mastic Solution for 3 minutes.
11. Air dry slide for 1 minute or until gum mastic is completely dry.
12. Incubate slide in preheated Reducing Solution for 10-15 minutes or until section is tan to brown at 70° Centigrade. (Note: Discard solution after this step)
13. Rinse slide quickly in distilled water.
14. Dehydrate quickly in 3 changes of absolute alcohol.
15. Clear, and mount in synthetic resin.

Procedure (Microwave):

Prepare Reducing Solution at Step #10 of this Procedure:

Combine:
25ml 1% Hydroquinone (0.25gm Hydroquinone in 25ml Distilled Water)
15ml Gum Mastic Solution (2.5%)
Mix thoroughly and filter through medium filter paper.
Then Add:
6 Drops (240µl) Silver Nitrate Solution (1%)
Mix thoroughly.

1. Deparaffinize sections if necessary and hydrate to distilled water.
2. Incubate slide in Oxidizer Solution for 20 minutes.
3. Rinse thoroughly in distilled water.
4. Incubate slide in Zinc Formalin Solution for 5 minutes.
5. Rinse thoroughly in distilled water.

Note: In a loosely capped Slide Jar heat 20ml of Silver Nitrate Solution (0.2%) in a microwave oven for 10 seconds at full power. Repeat as needed until solution is hot, but do not allow solution to boil. Remove Slide Jar from microwave, tighten cap and agitate to equalize temperature.

6. Incubate slide in hot Silver Nitrate Solution (0.2%) for 2 minutes with occasional agitation. (Note: Discard solution after this step)
7. Rinse slide thoroughly in distilled water.
8. Dehydrate slide in 2 changes of Absolute Alcohol.
9. Incubate slide in Gum Mastic Solution for 3 minutes.

Note: Prepare Reducing Solution (above).

10. Air dry slide for 1 minute or until gum mastic is completely dry.
11. In a loosely capped Slide Jar heat 20ml of Reducing Solution in a microwave oven for 10 seconds at full power. Repeat as needed until solution is hot, but do not allow solution to boil. Remove Slide Jar from microwave, tighten cap and agitate to equalize temperature.
12. Place slide in loosely capped Slide Jar and return to microwave. As before heat Slide Jar containing slide for 10 seconds at full power. Repeat as needed until solution is hot, but do not allow solution to boil. Incubate slide in hot Reducing Solution for 3 minutes and then reheat again at full power until solution is hot. Incubate slide for an additional 2-3 minutes or until section is tan to brown. (Note: Discard solution after this step)
13. Rinse slide quickly in distilled water.
14. Dehydrate quickly in 3 changes of absolute alcohol.
15. Clear, and mount in synthetic resin.

References:

1. Leung, K., Gibbon, K.J. A Rapid Staining Method for Helicobacter Pylori in Gastric Biopsies, Journal of Histochemistry, Volume 19, Pages 131-132. 1996

Lot-to-Lot Validation Form
Steiner Stain Kit Catalog: SSK-STEINER

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 #**
Oxidizer Solution	
Zinc formalin Solution	
Gum Mastic Solution	
Hydroquinone	
Silver Nitrate Solution (0.2%)	
Silver Nitrate Solution (1%)	

Replacement Component if used	Replacement Date	Lot #	Accepted Y/N	Comments
Oxidizer Solution				
Zinc formalin Solution				
Gum Mastic Solution				
Hydroquinone				
Silver Nitrate Solution (0.2%)				
Silver Nitrate Solution (1%)				
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.