



Instructions For Use

NYS-IFU

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Naphthol Yellow S Solution

Description and Principle

Naphthol Yellow S Solution is a component of the Pneumocystis Stain Kit (Cat# PCS-1) which is intended for use in the histological visualization of Pneumocystis carinii in cytology smears, and paraffin or frozen tissue sections. Naphthol Yellow S Solution is the component responsible for staining the Erythrocytes yellow.

Expected Results

Pneumocystis carinii:	Violet / Purple
Connective Tissue:	Blue / Green
Erythrocytes:	Yellow
Mucin:	Rose / Purple
Cartilage:	Rose / Purple

Kit Contents

Additional Kit Reagents Sold Separately

1. Cresyl Echt Violet Solution (0.1%)	2-8°C
2. Naphthol Yellow S Solution	18-25°C
3. Staining Jar	

Storage

Suggested Controls (not provided)

Any prepared slide that contains Pneuomocystis carinii.

Uses/Limitations

For In-Vitro Diagnostic use only.

Do not use if reagents become cloudy or precipitate

Do not use past expiration date.

Use caution when handling reagents.

Non-Sterile

Intended for FFPE sections cut at 5-10µm.

This procedure has not been optimized for frozen sections.

Frozen sections may require protocol modification.

Storage

Store at room temperature (18-25°C).

Safety and Precautions

Please see current Safety Data Sheets (SDS) for this product and components GHS classification, pictograms, and full hazard/precautionary statements.

Preparation of Sulfation Reagent Prior to Beginning

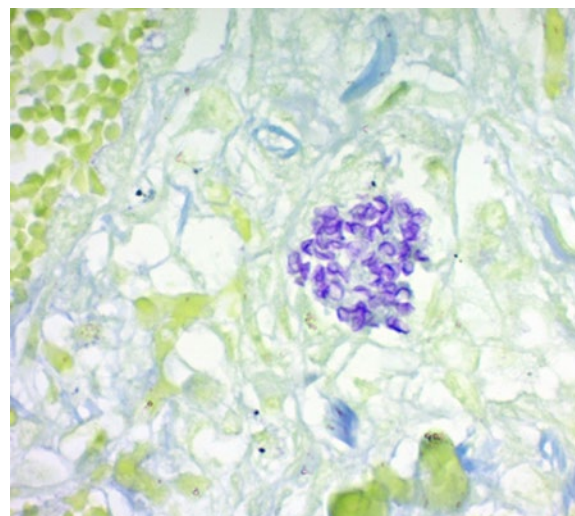
(Not Included in Kit):

Note: Wear protective clothing, gloves, and eyewear when mixing and handling this reagent. Make fresh for each use.

1. Pour 15 ml of Glacial Acetic Acid into the Staining Jar provided with this kit.
2. Slowly add 5 ml of Sulfuric Acid to the Staining Jar.
3. Screw cap tightly on staining jar and invert several times to thoroughly mix acids.
4. Wait 5-10 minutes before proceeding with stain procedure to allow mixed acids to cool.
5. Use Staining Jar only for Sulfation procedure.

Procedure:

1. Deparaffinize sections if necessary and hydrate to distilled water.



Pneumocystis infection in Human Lung stained with Pneumocystis Stain Kit. Viewed at 630X magnification.

2. Place slide in freshly mixed Sulfation Reagent for 10 minutes. Note: Agitate Staining Jar every few minutes to keep acids mixed.

3. Rinse in 3 changes of distilled water.

4. Incubate slide in Cresyl Echt Violet Solution (0.1%) for 10-15 minutes.

Note: Agitate slide several times during incubation step.

5. Rinse quickly in distilled water.

6. Apply Naphthol Yellow S Solution to tissue section for no longer than 4 seconds. Note: Excessive Naphthol Yellow S Solution decolorizes Pneumocystis and connective tissue.


7. Rinse very quickly using absolute alcohol.

8. Dehydrate very quickly in 2 changes of fresh Absolute Alcohol. Alternative Method: Dip slide twice in Absolute Alcohol and air-dry slide.


9. Clear, and mount in synthetic resin.

References

1. Sheenan, D.C., Hrapchak, B.B. Theory and Practice of Histotechnology, 2nd Edition. Battelle Press, Columbus, OH.

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