

Version 2a Last updated 13 December 2018

ab150682 Pneumocystis (Microorganism Stain)

For the histological visualization of *Pneumocystis carinii*.

This product is for research use only and is not intended for diagnostic use.

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1. Overview

The Pneumocystis (Microorganism Stain) is intended for use in the histological visualization of *Pneumocystis carinii* in cytology smears, and paraffin or frozen tissue sections.

Staining Interpretation:

<i>Pneumocystis carinii</i>	Violet/Purple
Connective Tissue	Blue/Green
Erythrocytes	Yellow
Mucin	Rose/Purple
Cartilage	Rose/Purple

Control Tissue:

Any prepared slide containing *Pneumocystis carinii*.

2. Materials Supplied and Storage

Store kit at 4°C immediately on receipt and check below for storage for individual components. Kit can be stored for 1 year from receipt, if components have not been reconstituted.

Keep away from open flame and refer to the Safety Data Sheet.

Item	Quantity	Storage temperature (before prep)
Cresyl Echt Violet Solution	125 mL	4°C
Naphthol Yellow S Solution	125 mL	RT
Staining Jar	1	RT

3. Materials Required, Not Supplied

These materials are not included in the kit, but will be required to successfully perform this assay:

- Glacial Acetic Acid
- Sulfuric Acid
- Absolute Alcohol
- Distilled Water

4. General guidelines, precautions, and troubleshooting

Please observe safe laboratory practice and consult the safety datasheet.

For general guidelines, precautions, limitations on the use of our assay kits and general assay troubleshooting tips, particularly for first time users, please consult our guide:

www.abcam.com/assaykitguidelines

For typical data produced using the assay, please see the assay kit datasheet on our website.

5. Reagent Preparation

Prepare the sulfation reagent (Not included in Kit) prior to the start of the staining procedure.

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

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

5.1 Cresyl Echt Violet Solution (0.1%)
Ready to use as supplied.

5.2 Naphthol Yellow S solution
Ready to use as supplied.

6. Assay Procedure

- Equilibrate all materials and prepared reagents to room temperature just prior to use and gently agitate.

- 1. Deparaffinize sections if necessary and hydrate in distilled water.
- 2. Place slide in freshly mixed Sulfation Reagent for 10 minutes.
ΔNote: Agitate the Staining Jar every few minutes to keep the acids mixed.
- 3. Rinse in 3 changes of distilled water.
- 4. Incubate slide in Cresyl Echt Violet Solution for 10-15 minutes.
ΔNote: Agitate the slide several times during the incubation.
- 5. Rinse quickly in distilled water.
- 6. Dip slide in Naphthol Yellow S Solution for **4 seconds**.
ΔNote: Excessive Naphthol Yellow S Solution decolorizes Pneumocystis.
- 7. Rinse very quickly using absolute alcohol.
- 8. Dehydrate in very quickly in 2 changes of Absolute Alcohol or dip slide twice in Absolute Alcohol and air-dry slide
- 9. Clear and mount in synthetic resin.

7. FAQs / Troubleshooting

General troubleshooting points are found at www.abcam.com/assaykitguidelines

8. Notes

Technical Support

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