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Control Slides For: *Pneumocystis sp.* Immunopathology

Catalog# 3670

PRODUCT DESCRIPTION

The enclosed quality control slides are intended to be used to verify histological techniques and reagent reactivity. They are to be used for the qualitative purpose of determining positive or negative results, and are not intended to be used for any quantitative purpose. The first serial section within this control box is stained and provided for your reference. **Before using these slides, review the stained slide with your pathologist to ensure that this tissue source is acceptable. We will not accept a return with missing slides in the series. Newcomer Supply guarantees reactivity of these control slides for one year from the date of receipt. Revalidate after one year to verify reactivity. Store at 15-30°C in a light deprived and humidity controlled environment.**

These control slides were produced from human surgical or autopsy tissues under carefully controlled conditions. Reasonable measures are used to deliver quality control slides that are as consistent as possible. However, characteristics of quality control slides may be dissimilar due to variations in the reagents, stains, techniques, laboratory conditions, and tissue sources used. At Newcomer Supply, we use a manual method of performing immunohistochemical and histopathology stains, specifically avoiding automation, in order to provide reactive control slides for even less aggressive methods of staining that our customers may be using.

Please Note: A section of normal human lung has been included on the slide for use as a negative control.

METHOD:

Fixation: 10% Neutral Buffered Formalin
Technique: Paraffin sections cut at approximately 4 microns

REAGENTS:

Retrieval:	Target Retrieval, Dako	Catalog #S1699
Blocking Reagent:	3% Hydrogen Peroxide, Newcomer Supply (30%)	Catalog #1206A
Primary Antibody:	Pneumocystis Jiroveci, Monoclonal Antibody (1:30), Cell Marque	Catalog #219M-15
Detection Kit:	HiDef Detection™ HRP Polymer System, Cell Marque	Catalog #954D-20
Buffer:	Tris Buffer Saline, 0.05M, pH 7.6, 10X, Newcomer Supply	Catalog #140304
Chromogen:	DAB Substrate Kit, Cell Marque	Catalog #957D-10
Hematoxylin:	Hematoxylin Stain Solution, Mayer Modified, Newcomer Supply	Catalog #1202

STAINING PROCEDURE:

1. Deparaffinize sections in 3 changes of xylene, then hydrate through graded ethyl alcohols to distilled water.
2. Place slides in preheated (95°C) Target Retrieval Solution in steamer for 20 minutes. Remove Coplin jar and allow to cool for 20 minutes at room temperature.
3. Rinse slides with 3-4 changes of Tris buffer, followed by a distilled water rinse.
4. Tap off excess water and apply enough 3% Hydrogen Peroxide to cover specimen. Incubate 5 minutes.
5. Rinse slides gently in distilled water from a wash bottle and place in Tris or PBS buffer bath for 5 minutes.
6. Tap off excess buffer and apply enough primary antibody (1:30) to cover specimen. Incubate 10 minutes.

7. Rinse slides gently in buffer from a wash bottle and place in buffer bath.
8. Tap off excess buffer and apply enough Amplifier to cover specimen. Incubate 10 minutes.
9. Rinse slides gently in buffer from a wash bottle and place in buffer bath.
10. Tap off excess buffer and apply enough HRP Polymer to cover specimen. Incubate 10 minutes.
11. Rinse slides gently in buffer from a wash bottle and place in buffer bath.
12. Prepare enough substrate-chromogen DAB for the amount of slides being stained.
13. Tap off excess buffer and apply enough prepared substrate-chromogen DAB solution to cover specimen. Incubate 5 minutes.
14. Rinse slides gently in distilled water from a wash bottle and place in distilled water bath.
15. Counterstain lightly with Hematoxylin Stain Solution, Mayer Modified.
16. Blue sections in warm tap water.
17. Dehydrate sections through graded ethyl alcohols, clear in xylene or substitute and coverslip with a compatible mounting medium.

RESULTS:

<i>Pneumocystis sp.</i>	Brown
Normal Human Lung	Negative

REFERENCES:

1. Cell Marque HiDef Detection™ Polymer System datasheet.
2. Cell Marque Pneumocystis jiroveci (carinii) specification sheet.

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