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Control Slides For: *Coccidioides sp.*

Catalog# 4125

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 is included on the slide for use as a negative control.

METHOD:

Fixation: 10% Neutral Buffered Formalin
Technique: Paraffin sections cut at approximately 5 microns
Solutions: All solutions are manufactured by Newcomer Supply, Middleton, Wisconsin, 53562

COMPONENTS:

KIT: Fungus Stain Kit, PAS/Light Green, Catalog #9122

Periodic Acid, 0.5% Aqueous Solution	Catalog #13308
Schiff Reagent, McManus	Catalog #1371
Light Green SF Yellowish Stain Solution, 0.2% Aqueous	Catalog #12202

STAINING PROCEDURE: PAS for Fungus

1. Deparaffinize sections thoroughly in 3 changes of xylene, then hydrate through graded ethyl alcohols to distilled water.
2. Place slides in Periodic Acid, 0.5% Aqueous Solution for 10 minutes.
3. Wash in tap water 3 changes followed by a distilled water rinse.
4. Drain slides of excess water and place in Schiff Reagent, McManus for 20 minutes.
5. Wash in running tap water 5-10 minutes. Check the wet slide under the microscope for desired intensity of stain. Re-stain or continue washing accordingly.
6. Counterstain with Light Green SF Yellowish Stain Solution, 0.2% Aqueous using the timing that produces your preference of intensity.

7. Dehydrate through graded ethyl alcohols, clear in xylene, and coverslip with a compatible mounting medium.

RESULTS:

Nuclei	Blue black
<i>Coccidioides sp.</i>	Red to magenta
Other tissue elements	Green to blue green
Normal human lung	Negative

REFERENCES:

1. **"Theory and Practice of Histotechnology"**, Sheehan, D., and Hrapchak, B., 2nd edition, The C.V Mosby Company, St. Louis, 1980, pp. 243-244.
2. **"Diagnostic Microbiology"**, Bailey/Scott, 4th edition, The C.V. Mosby Company, St Louis, 1974, pp. 709-710.

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