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Control Slides For: Acid Fast Bacteria (AFB)

Catalog # 4010

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:

Carbol Fuchsin Stain Solution	Catalog #1030
Acid Alcohol, 1% Solution	Catalog #10011
Methylene Blue, 0.5% Working Stain Solution	Catalog #12402

KIT: AFB Stain Kit, Ziehl-Neelsen,
Catalog #9101

STAINING PROCEDURE, ZIEHL-NEELSEN AFB STAIN

1. Filter Carbol Fuchsin Stain Solution.
2. Deparaffinize slides thoroughly in three changes of xylene, then hydrate through graded ethyl alcohols to distilled water.
3. Stain in freshly filtered Carbol Fuchsin, for 60 minutes at room temperature.
4. Rinse in running tap water for 2 to 3 minutes.
5. Differentiate in Acid Alcohol, 1% Solution until color stops coming off (usually 3 to 10 rapid dips).
6. Wash in running tap water 3 to 5 minutes, followed by a distilled water rinse.
7. Dip slide for a second or two in Methylene Blue, 0.5% Working Stain Solution. Rinse in distilled water. Blot back and bottom of slide quickly and exam under a microscope for background intensity. Repeat as necessary until desired stain level is achieved. Discard working solution.

- Dehydrate **quickly** through graded ethyl alcohols, clear in xylene or substitute, and coverslip with a compatible mounting medium.

RESULTS:

Acid Fast Bacteria	Red
Background	Pale blue
Normal Human Lung	Negative

REFERENCE:

Theory and Practice of Histotechnology, Sheehan, D., and Hrapchak, B., 2nd edition, The C.V. Mosby Company, St. Louis, 1976, pp. 236-237.

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