



Cat. No. 052-824

MicroQuik

Rapid Identification of E. coli

The MicroQuik test is intended for the rapid identification of *E. coli* from a first growth culture plate.

PRINCIPLES:

MicroQuik utilizes a fluorogenic substrate which, when hydrolyzed by a specific enzyme (during peptide hydrolysis), produces a blue/white fluorescence.

PERFORMANCE CHARACTERISTICS:

Over 500 isolates were tested with the MicroQuik test card, with a correlation of greater than 99%, when compared to traditional biochemical testing.

CONTENTS OF THE KIT:

Each kit contains sufficient components for 25 tests:

- 1 Bottle of Reagent A (Buffer)
- 25 MicroQuik Test Cards
- 1 Product Insert

MATERIALS NOT PROVIDED:

- Swabs, inoculating needles, wooden applicator sticks
- Positive and Negative Control Microorganisms
- Long wave (360nm) UV Light

WARNINGS AND PRECAUTIONS:

Care should be taken against the hazards of viable bacteria. Do not touch the filter membrane before, or after use. Sterilize cards before discarding.

EVIDENCE OF DETERIORATION:

Do not use the test card after the expiration date has passed, or if the filter is no longer white, which could make the results invalid.

STORAGE CONDITIONS *℥*

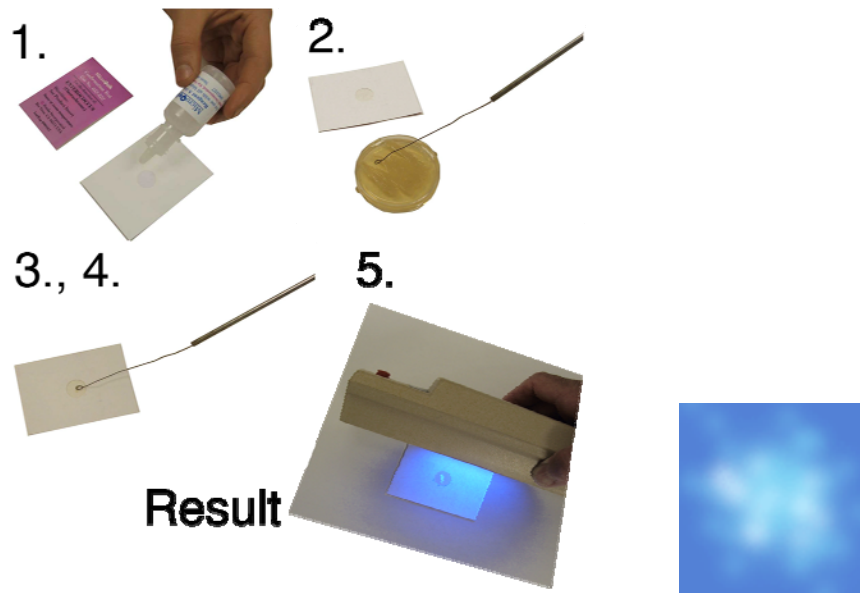
All materials can be stored at room temperature. Refrigeration storage does not harm the test.

USER QUALITY CONTROL:

Before using the MicroQuik test, each lot number should be checked with positive and negative controls, using known stock strains of *E. coli*, and another strain of bacteria that is not *E. coli*.

TESTING PROCEDURES:

1. Add 1 drop of Reagent A to the filter membrane.
2. Select colonies that morphologically resemble *E. coli*.
3. Touch the tops of 2-3 colonies with a loop, inoculating needle, swab, or wooden applicator. Smear the colonies onto the filter membrane of the test card.
4. Set aside the inoculated card at room temperature for 5 minutes.
5. After 5 minutes, look at the test card under a long wave (360nm) UV light. A positive test will be indicated by a blue/white fluorescence over a blue background around the smeared colonies. The test is negative if no blue/white fluorescence appears. A positive test is indicative of *E. coli*.



LIMITATIONS OF THE TEST:

Occasionally some species of other microorganisms *may* produce small amounts of enzyme, which can produce a positive test from culture. This is extremely rare.

***Technical Alert for Quality Control:* MicroQuik detects bacterial enzymes, which may dissolve in liquids. Serial dilutions of bacteria may not give a positive reaction. Therefore, all confirmation testing must be done with plated colonies.**



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