

Vista Enterprises Incorporated

Presents:

MicroQuik™

Fast Confirmation of Microorganisms

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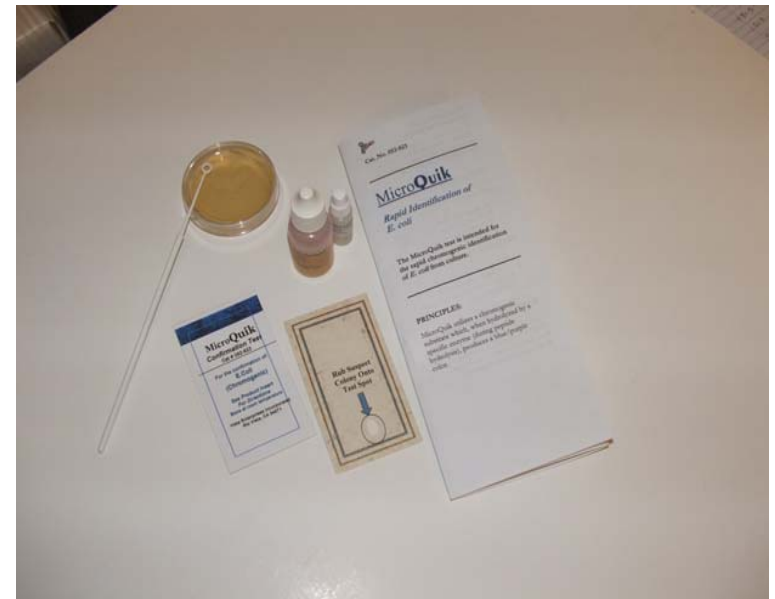
www.vistaenterprisesinc.com



MicroQuik™

Rapid Confirmation Tests For:

- **Food Safety**
- **Cosmetic Industry**
- **Beverages**
- **Water Testing**





What is MicroQuik:

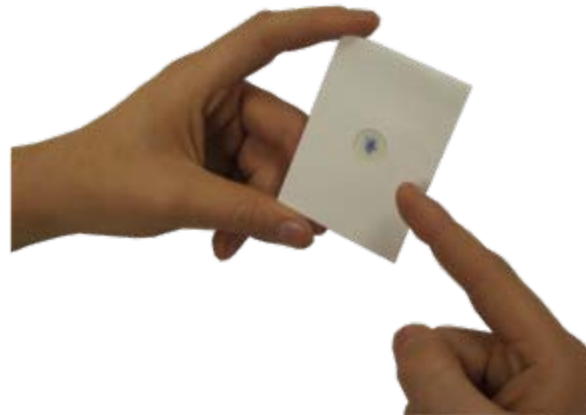
- **Based on enzymatic testing**
- **Family of tests**
- **Quickly confirms the presence of specific microorganisms from a first growth plate**
- **Fast results - 5 to 30 minutes**
- **Inexpensive compared to traditional testing**
- **Accuracy greater than 98%**
- **Readily available**
- **Disposable**



Core Technology:

Unique enzyme detection systems consisting of a synthetic substrate which, in the presence of an enzyme specific to the infectious disease, causes a chemical reaction.

This reaction, when coupled to a developing agent, causes a color to appear on the filter membrane; or is visible under a fluorescent light without the addition of a developing agent.





Advantages of MicroQuik:

- **MicroQuik Confirmation Tests will confirm presence or absence of specific organisms from a first growth plate**
- **MicroQuik Confirmation Test assays are easier to use than the traditional culture methods and yields results in less than thirty minutes.**
- **MicroQuik Confirmation Test's ready to use reagents have extended shelf life and room temperature storage.**
- **MicroQuik Confirmation Tests are enzymatic assays for the rapid detection of specific micro-organisms.**



Test Time Comparison:

Traditional -- MicroQuik

Food sample with microbial contamination	Enrichment overnight 18-22 hours	Selective enrichment 6-8 hours	Post enrichment 16-20 hours	ELISA 2+ hours	<u>Total:</u> 42-52 hours
Food sample with microbial contamination	Enrichment overnight 18-22 hours	MicroQuik 5-30 minutes			



Testing Procedure:

- A. Fluorochrome Detection** - *Detection requiring long wave UV light or reagent. Results in 5 minutes.*
1. Enterococcus
 2. Streptococcus Group A
 3. Gram+/Gram- Differentiation
 4. Candida Albicans
- B. Chromogenic Detection** - *Detection indicated by a color reaction. Results in 30 minutes.*
1. E. coli
 2. Total Coliforms
- C. Fluorogenic Detection** - *Detection requiring long wave UV light. Results in 5 minutes.*
1. Total Coliforms
 2. E. coli and Total Coliforms



A. Fluorochrome Testing Procedure:

- 1. Add 1 drop of Reagent A to the filter membrane.**
- 2. Select colonies that morphologically resemble the target organism.**
- 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. Add 1 drop of Reagent B to the filter membrane. A purple color will immediately form on and around the deposited colonies in the presence of the hydrolyzed substrate, indicating a positive test. The test is negative if no purple color appears. The test result must be read within 1 minute after the addition of Reagent B, otherwise the test result may be invalid.**



B. Chromogenic Testing Procedure:

- 1. Add 1 drop of Reagent A to the filter membrane.**
- 2. Select colonies that morphologically resemble the target organism.**
- 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 25 minutes.**
- 5. After 25 minutes, look for a blue/purple color around the smeared colonies. This is a positive test.**

*The test is negative if no blue/purple color appears.
A positive test is indicative of the target organism.*



C. Fluorogenic Testing Procedure:

- 1. Add 1 drop of Reagent A to the filter membrane.**
- 2. Select colonies that morphologically resemble the target organism.**
- 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 the target organism.



Current Kits Available & Custom Kits:

Vista Enterprises Incorporated (VEI) MicroQuik confirmation kits are currently available for:

- **Enterococcus**
- **E. coli**
- **Streptococcus Group A**
- **Total Coliforms**
- **Candida Albicans**
- **E. coli and Total Coliforms**
- **Gram+/Gram- Differentiation**

VEI can custom design kits for customers that have specific requests.

Please contact VEI if you have such a request.