readycult

EPA approved

Ready for ReadyCult®

The rapid and economical, E.coli/coliform and Enterococci tests for drinking water.

MERCK

ReadyCult® – Consider the differences...

Rapid detection and identification of microorganisms are of high importance. The use of fluorogenic and chromogenic substrates, utilizing specific enzymatic activities o f target microorganisms, for rapid and sensitive detection of bacteria has proved to be a powerful alternative to conventional microbiology methods.

Now you have a better way to test for enterococci and coliforms including an additional positive confirmation of E.coli. Until now, the most commonly used method to test for E.coli / coliforms was based on an ONPG-MUG assay, which necessitated the use of a color comparator to interpret initial results. The ReadyCult® Coliform test will detect total coliforms and E.coli in water samples - even in the presence of an initial background concentration of a million heterothrophic bacteria in 100 ml.

Now the choice is easy:

With the ReadyCult® test the color change from yellow to blue-green is an easy-to-read, definitive positive result.

With the optional 30-second Indole reaction you have an accurate method for positive confirmation of E.coli.

The additional Indole test protects you in two ways: Against false negatives, because a lack of fluorescence doesn't always indicate absence of E.coli and against false positives, because other species of bacteria can fluoresce. The ReadyCult® test method is EPA approved.

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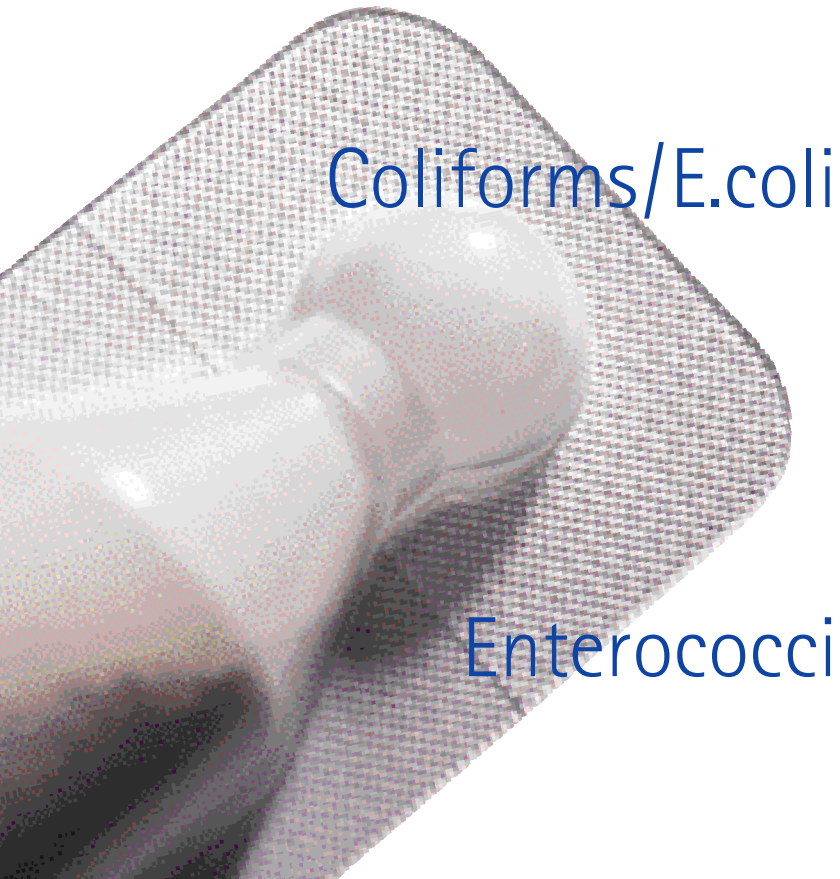

Coliforms/E.coli

Enterococci

Ready 1

Just add ReadyCult® to 50 o r 100 ml sample and mix (Enterococci test to 100 ml sample).

Steady 2

Incubate up to 24 h at 35 - 37 °C.

Your advantages

Convenient
- The media are supplied in ready-to-use snap-pack format
- Designed for on-site testing
- No media preparation required
- Simply add medium, incubate and read results

Rapid
- Results within 18 to 24 hours
- Results 3-4 days earlier than with traditional methods
- Hands-on time in less than 1 minute
- Indole results within 30 seconds

Economical
- Reduction of workload and material costs

3 Go!

The EPA approved ReadyCult® method allows you to use the Indole test for immediate E.coli confirmation.

positive negative

If there is no color change the test is negative (turbidity does not indicate a positive test).

Any color change in the broth to blue-green, even if only at the upper section, confirms the presence of total coliforms.

Interpretation of results.

X-Gal positive, MUG positive

94 – 97 % E.coli specific

A light-blue fluorescence indicates the presence of E.coli.

X-Gal positive, MUG positive, Indole positive

E.coli confirmed

For confirmation the Indole test can be performed directly in the same broth by adding Bactident® Indole (red ring appears immediately).

positive negative

If there is no color change the test is negative (turbidity does not indicate a positive test).

Any color change in the broth to blue-green, even if only at the upper section, confirms the presence of enterococci.

...save money,
get the benefits!

Ordering information

Product	Cat. No.	Package size
ReadyCult® Coliforms 50	1.01295.0001	20 tests
ReadyCult® Coliforms 100	1.01298.0001	20 tests
ReadyCult® Enterococci 100	1.01299.0001	20 tests
Bactident® Indole	1.11350.0001	30 ml dropper bottle
Kovac's Indole Reagent	1.09293.0100	100 ml
UV Lamp (365 nm)	1.13203.0001	

Approvals / References

- *USEPA: 40 CFR Part 141 (Sec.141.21) Federal Register / Vol. 67, No. 209, Tuesday, October 29, 2002 / Rules and Regulations*
- *Microbiology Manual for the Meat Industry, 3rd Edition April 2000, New Zealand, Chapter 11 Testing Potable Waters for Indicator Bacteria, A1.1 Chromogenic Substrate Methods for Total Coliforms and E. coli*
- *Ministry of Health, New Zealand, Drinking Water Standard for New Zealand 2000 (DWSNZ:2000), Enzyme Substrate Coliform Test*
- *Manafi, M., Rosmann, H; Identification of Bacterial Strains Isolated from Drinking Water by Means of Fluorocult LMX and ReadyCult Coliforms. 100th American Society of Microbiology, Los Angeles, 21-25th May 2000.*
- *Manafi, M., Rosman; Evaluation of ReadyCult® Presence/Absence Test for the Detection of Total Coliforms and E. coli in Water. 98th American Society of Microbiology, Atlanta, 17-21st May 1998*
- *Lee, J.V., Lightfoot, N.F., Tillett, H.E; An evaluation of presence/absence tests for coliforms and Escherichia coli. International Conference on Coliforms and E. coli: Problem or solution? 24-26th September 1995, University of Leeds, UK*

VV 286114 01/05

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