



AND



Measuring the **Health**  
of the **Environment**



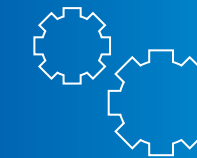
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### THE PRINCIPLES OF THE COLIPATE

The ColiPlate water testing kit is a rapid, convenient and accurate test for qualitative and quantitative measurement of Total Coliforms and *E. coli* bacteria. The test is based on an EPA approved methodology which is designed to meet regulatory guidelines for untreated water, surface water, recreational water, processing water and wastewater. The ColiPlate test quantifies the density of the target bacteria (Coliforms and *E. coli*) ranging from less than 3 to 5,000 colony forming units (cfu's) per 100ml sample.

The ColiPlate utilizes proven nutrient indicators X-Gal and MUG to detect viable Coliforms and *E. coli* bacteria as well as selective media to stimulate the growth and indicators for chromogenic and fluorogenic enzymes. The substrates react with the enzymes produced by the Coliforms (Beta-D-galactosidase) and the *E. coli* (Beta-D-glucuronidase) resulting in a blue/green formation of colour, and a fluorescence emission by the Coliforms and *E. coli* respectively.



### CUSTOM SOLUTIONS

At EBPI we strive to meet the demands of our clients and their changing requirements. For further information: please contact us at [www.BioToxicity.com](http://www.BioToxicity.com)



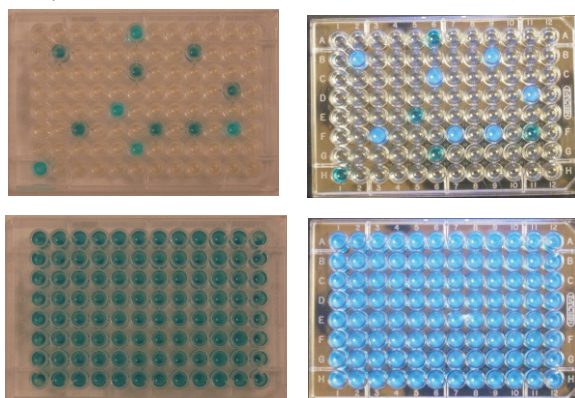
### INTERPRETATION OF THE COLIPLATE RESULTS .

1. After incubation, place the micro-plate onto a white surface and score the number of wells which have turned blue (the colour tone of the wells are an indicator of the strength of the bacterial colony). All Blue wells should be scored regardless of their intensity.

2. Plate the micro-plate onto a black (dark) surface in reduced light, and under a long wavelength UV (366 nm) score the number of fluorescent wells which are also blue (Note: do NOT score the fluorescent wells that are not blue).

Photographs to the right are examples of the endpoints for the ColiPlate *E. coli* Test.

- ✍ The top left shows the number of wells which turned blue which is an indication of the number of Coliform colonies.
- ✍ The top right is the same plate under a UV light (Note: Only the blue/green wells which are fluorescent are positive for *E. coli*)
- ✍ The bottom left plate show high Coliform forming colonies MPN>2,424
- ✍ The bottom right plate show high levels of *E. coli* MPN>4,424



Calculating the MPN (Most Probable Number) can be conducted one of 2 ways.

- ✍ 1. Referring to the MPN table included in the inside sleeve of the ColiPlate box, and determine the MPN.
- ✍ 2. Using EBPI's Excel Spread Sheet found at ([www.BioToxicity.com](http://www.BioToxicity.com)), enter data to determine the MPN.



### A PRESENCE/ABSENCE 24-HOUR TEST FOR COLIFORMS AND E. COLI

The WaterCheck kit is a powerful screening tool used to detect possible fecal contamination in drinking water. The test is designed to determine both the presence and absences of Coliform and *E. coli* bacteria which is used as an indicator of fecal contamination.

The WaterCheck kit is designed to detect the presence of a single colony forming unit (cfu) per 100ml of water sample. The test is based on an EPA approved method which is sensitive enough to meet national drinking water standards.

### WHO ARE THESE TESTS DESIGNED FOR.

- ✍ Home Owners Associations
- ✍ Cottage Owners Associations
- ✍ Small Towns
- ✍ Rural Water Districts
- ✍ Mobile Home Parks
- ✍ Small Private Systems
- ✍ Public Water Systems
- ✍ Developing countries
- ✍ Oil Rigs
- ✍ Mining Camps
- ✍ Ocean Vessels



### BENEFITS OF THE TESTS

- ✍ Rapid, results in 24 hours
- ✍ No preparation required
- ✍ Convenient and user friendly
- ✍ Ready to use
- ✍ Accurate
- ✍ Cost Effective
- ✍ Long shelf-life



1. Negative Results



2. Positive Test Results