

# AQUAVIAL™ PLUS

## What is AquaVial™ PLUS?

### DIY test

- Can be performed from the comfort of your home or workplace
- Anyone can perform the test, you don't need to be a lab technician

### 2 tests in 1

- AquaVial™ Total Bacteria detects low levels bacteria, biofilm and fungi
- AquaVial™ E. coli detects specifically E. coli and coliform bacteria

### Alternative water treatments

- Excellent for monitoring environmentally friendly water disinfectant systems (ozone, hydrogen peroxide & UV treatments)

### Added piece of mind

- Designed to test well and ground water

### Made in Canada

- Developed at the University of Waterloo
- Manufactured in Cambridge, Ontario

### Innovative product

#### AquaVial™ Total Bacteria

- Uses advanced nanotechnology
- No microbial culture needed
- Proprietary T-Cup unit concentrates the water sample 10 times, which leads to increased test sensitivity and produces consistent reliable results



#### AquaVial™ E. coli

- Uses most recent E. coli detection technology

### Tested and proven effective

- Originally developed and implemented for dental office applications
- Validated by 2 independent water research centres in Canada



## Why is it important?

Untreated wells, ground or surface water naturally contains bacteria, fungi and viruses, which can be harmful to our health.

### Bacteria & Fungi

High levels of total bacteria and fungi (over 500 CFU/ml) are an indicator of untreated water. Very high bacteria levels (over 2,000 CFU/ml) indicate biofilm presence.

### Biofilm

Biofilm is a slimy, sticky film, produced by bacteria as a way to store nutrients and defend against chemicals like chlorine. Biofilm in warm waters (hot tubs, showers, cooling towers) creates conditions for harmful bacteria, such as Legionella, Pseudomonas, and Klebsiella - known to cause Pneumonia.

### E. coli

E. coli and coliform presence is an indicator of water being contaminated with wild or farmed animal feces, and poor sanitation, and can pose serious health risks.



## AquaVial™ PLUS Applications

- testing the effectiveness of water treatment & disinfection (before and after)
- testing drinking water from municipal water supply
- well water
- pool and hot tub water
- cooling towers & hot water distribution system
- clear beverages, and more!

# AquaVial™PLUS at work

Bacteria & Fungi

30 min

## TOTAL BACTERIA TEST

BEFORE

AFTER



Clean water

Contaminated water

Highly contaminated water

## E. COLI TEST

BEFORE

AFTER



Clean water

Contaminated water

E. coli

24 hrs

## AquaVial™PLUS story

Aquavial was born from an increasing concern raised by dentists. They longed for a quick way to test the bacterial contamination in the dental units and eliminate the risks of infection from water during a procedure.

Developed in collaboration with University of Waterloo the test is based on a unique advanced nanotechnology approach. After launching it in the dental market, our focus was to make this test user friendly and bring it to your home.

E. coli contamination in drinking water is a huge concern. Our E. coli test was developed with you in mind: we made the container easy to handle, and worked on delivering clear results through a vivid change in colour and improved testing times.

## How does AquaVial™PLUS compare to other tests?



	AQUAVIAL™	AQUAVIAL™ PLUS	DIY Culture based
What is detected	Bacteria, fungi, biofilm	Bacteria, fungi, biofilm, E. coli & Coliform	- E. coli & Coliform
Detection level	Bacteria: 500 CFU/ml	Bacteria: 500 CFU/ml E. coli: 1 CFU/ml	- E. coli: 1 CFU/ml
Incubation time/time required to test	Bacteria: 15 min @ 35C 30 min @ 20C	Bacteria: 15 min @ 35C 30 min @ 20C E. coli: 24 hrs @ 35C 48 hrs @ 20C	- - Over 2 days (depending on test method)

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