



AquaVial™ PRO is designed as a water quality screening tool for water treatment professionals, for monitoring microbial levels, early detection of biofilm formation, and as a Legionella prevention screening tool.

AquaVial™ PRO kit is designed to detect any waterborne bacteria, or fungi, and a number of other waterborne microorganisms. To date, the kit has been tested and proven to detect *Mycobacteria spp.*, *E. coli* and other coliform bacteria such as *Klebsiella spp.*, *Legionella spp.*, *Bacillus spp.*, *Pseudomonas spp.*, *Staphylococcus spp.*, *Salmonella spp.*, and fungi such as *Aspergillus spp.*, *Candida spp.*

AquaVial™ PRO is not a substitution for *E. coli* or coliforms testing in areas where the government requires drinking water testing to be done at a certified lab.

AquaVial™ PRO detection limit can be adjusted between 100 CFU/ml and 500 CFU/ml, based on the sample collected.

- Kit contents:**
- 20 ml Reusable syringe
 - Disposable filter cartridge
 - Test vial (pink)
 - Saline solution vial (clear)

- Before you test:**
- ☑ Wear gloves to eliminate the chance of contaminating samples.
 - ☑ Check vial colour (black cap vial) & shake. If not pink, do not use.

- Disposal/Recycling:**
- Filter cartridge is not reusable.
 - Dispose all components in the recycle bin or according to local regulations.

Instructions

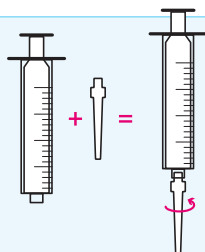
Follow exactly as written, any deviation may cause false positives or negatives!

1 Collect and filter sample

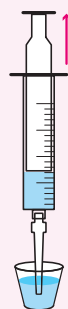
(i) Collect a minimum of twice the test volume of sample water into a clean container (see Results Interpretation Chart). For example, if testing 500 CFU/ml detection limit, collect approximately 40 ml of sample water.



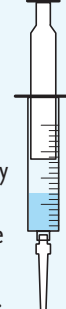
(ii) Unwrap the kit and filter cartridge. Screw/attach the filter cartridge onto the syringe tip.



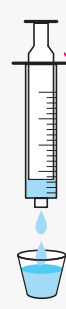
(iii) Position the filter cartridge tip into the water sample previously collected. Pull back the syringe plunger and draw in the test volume of sample water to fill the syringe to the required level (see Results Interpretation Chart).



(iv) Take the tip of the filter cartridge completely out of the sample water and continue to draw the plunger back completely to fill any remaining space inside the syringe with air. This step will ensure accurate results.



(v) Unscrew the filter cartridge completely from the syringe. Slowly press the plunger down to empty all the sample water from the syringe. Dispose this water as you will no longer need it for testing.

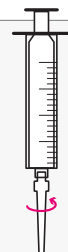


2 Wash sample

(i) Remove the cap of the saline solution vial.

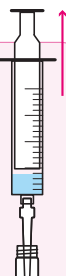


(ii) Re-attach the filter cartridge to the syringe.



(iii) Position the tip of the filter cartridge into the saline solution vial. Pull back the syringe plunger and draw in all of the saline solution into the syringe.

NOTE: Washing with saline solution will not affect the bacterial count, but ensure your sample is chemical free and will yield accurate results.

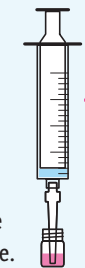


3 Test sample

(i) Remove the cap of the AquaVial PRO™ test vial, and place it face up so that the inside is not in contact with any surface. Do not touch the inside of the vial as this could result in a contaminated sample.



(ii) Slowly press the plunger down to add the saline water from the syringe into the test vial. For best results, pull back the plunger to pull in the solution and then push down on the plunger to release the solution. Do this at least twice to properly mix the test sample.



(iii) Recap the test vial. Do not reopen test vials after sealing. Use a Sharpie marker to label this test vial appropriately, indicating the water source. This is important when testing various sources simultaneously.



4 Observe colour and record results

Let the test vial sit at room temperature, and perform a quick check after 15 minutes. If no color change is observed after 15 minutes, leave the vial for an additional 15 minutes then observe colour. Immediately compare the colour within the vial with Interpretation Chart below and record test results.

Results Interpretation Chart | Bacteria level

Test detection limit	Sample volume	Test volume	Clean water	Contaminated water	Highly contaminated water
500 CFU/ml	40 ml	20 ml	<500 CFU/ml	500 – 2,000 CFU/ml	>2,000 CFU/ml
200 CFU/ml	100 ml	50 ml	<200 CFU/ml	200 – 1,000 CFU/ml	>1,000 CFU/ml
100 CFU/ml	200 ml	100 ml	<100 CFU/ml	100 – 500 CFU/ml	>500 CFU/ml

Pink

Purple

Clear

