



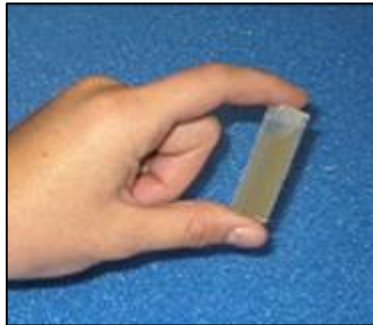
## QwikLite™ Test Cartridge

Part Number:  
QTC 100-FW (freshwater)  
QTC 100-SW (marine)

The QwikLite Test Cartridge (QTC) is used for water quality assessments in the **QwikLite 200 Biosensor System**. The advanced optical sensors in the QwikLite 200 utilize the Test Cartridge as a convenient way to measure each unique water sample or dilution.

The patented Test Cartridges come complete with everything needed for testing:

- Carousel, 3x2 inches (1)
- Snap top cover (1)
- Optical grade, methyl acrylic cuvettes (6)
- 50mL conical mixing tube (1)
- 4.25 mL container of live cultures (*P. lunula* dinoflagellates)
- Commercial grade aquarium sea salt (for use with samples under 30 ppt)



The QwikLite 200 Biosensor System uses one control cartridge (a “negative control” or non effected population) as the reference for all other water samples measured. For every 5 Test Cartridges, one control cartridge is provided at no charge.

The Test Cartridges are recycled and re-used if returned to Assure Controls.



## Frequently Asked Questions

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### **How many Test Cartridges are needed for my requirements?**

When you order a Test Cartridge, all the materials needed for a single unique toxicity test are included. The test result is the average of the measurements from all six cuvettes in a single test cartridge. Your water sample is mixed with the live cultures in the 50mL conical tube, then pipetted six times (six replicates of the same mixture) into the carousel holding the six cuvettes.

### **What is the sea salt for?**

The tests can be run on saltwater, brackish and freshwater samples. The sea salt is used to titrate samples up to 30-35 parts per thousand (ppt) when necessary.

### **Is the Control material different than the test material?**

No. The Control Cartridge is identical, it will be the un-exposed (not dosed with a water sample to be tested). The Control is always used as the reference for the next water samples to be tested.

### **How many Controls do I need?**

One Control is provided free of charge as for every five unique tests. For example, if you have 40 water samples to test, this would require eight Controls (which are provided at no charge)

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### **ASTM E1924**

The measurable reduction in light output can indicate toxic effects of many chemicals, as described in the "Standard Guide for conducting Toxicity Tests with Bioluminescent Dinoflagellates" ASTM E 1924-97. ASTM International is one of the largest voluntary standards development organizations in the world- a trusted source for technical standards for materials, products, systems, and services.

### **U.S. Patents**

7,704,731 System and Method for Quantifying Toxicity in Water, Soil, and Sediments  
7,838,212 Apparatus and Method for Providing Live Dinoflagellates for Toxicity Tests  
5,840,572 Bioluminescent Bioassay System  
5,565,360 Bioluminescent Bioassay System

Additional Patents Pending. Made in USA.

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