

Instructions For QuikiCult Reader 2035

(Autoanalyzer)

OVERVIEW

The QC Reader 2035 Reader is capable of testing water samples for active bacteria without the need for an operator to record periodic test readings or interpolate the results from a chart. The unit will continuously test an ampoule and display the microbial concentration when there has been sufficient growth for determination.

The Autoanalyzer is capable of performing tests on a variety of ampoules, including *Total Microbe*, *Coliform*, *E-Coli* and *Sulfur* ampoules. Please see notes below when testing with the *E-Coli* ampoules. Please contact Simpltek if *Sulfur* tests are to be performed.

OPERATION NOTES

The IA2035 Reader with the Autoanalyze program is preset to perform the analysis mode for the *Total Microbe* Ampoules. This Mode can be changed to enable the analysis of other ampoules. After the operator presses the **START** button to initiate a test, the display shows "Test Mode TM". It is possible to step through the available Modes using the Up or Down (**▲ ▼**) buttons. Pressing **ENTER** registers the desired Mode for the test.

If a sample is too dark for a meaningful test the display will read "Amp Too Dark".

DO NOT move or remove the ampoule while a test is in progress.

DO NOT operate the QC Reader in direct sunlight.

If the main power source is removed or interrupted, the test duration counter will be interrupted. However, the test status will be retained in memory until power is restored, at which time the counter will resume. Interruptions of more than a few minutes may affect the accuracy of the test.

SETUP / SAMPLE TAKING

- 1: Select an environment between 70°F and 78°F for operation and a clean level surface near power service. Connect external POWER SUPPLY to power the unit on.
- 2: Allow unit to **WARM-UP** for 20 minutes.
- 3: Obtain the water **SAMPLE** by breaking an ampoule as per ampoule kit instructions.
- 4: Dry the Ampoule.

TEST OPERATION

5. Insert the ampoule into the test cell chamber and close the cell cover.
- 6: Press the **START** button and confirm the test by pressing the **ENTER** button. When the display shows "Start Test?" press the **ENTER** again button to initiate the test. The display will then change to "Init".
- 7: After a 20 minute stabilization period the display will change to "Acquire", and then "Analyze". The display will show the elapsed time of the current test in hours (and the test mode).
- 8: When the test is finished the display will show the test time in hours and the microbe count. (Example: "04.2 6e5 cfu" indicates a test time of 4.2 hours and a count of 6×10^5 CFU/mL.)
- 9: If it is desired to cancel a test, press **EXIT**. When "End Test?" is displayed, press **ENTER**.

TEST DURATION

Tests with the 2035 will end after a 9 hour period and display an "End of Test 09Hr" message. Therefore, samples with microbial counts of less than 10^3 CFU/ml will display the 09Hr message above.

E-Coli TESTS

The QC Reader test cell chamber normally has an 85°F operating temperature when the environment is 70° - 75° F. The E-Coli test ampoules are designed for incubation at 95°F. Users may leave the QC Reader in an environment of 80°F to 85°F for more accurate E-Coli test results.

Maintenance

The 2035 Reader should provide trouble free operation. Proper usage and maintenance will ensure this.

Over time, the Reader ampoule cell test chamber will acquire moisture and/or a film. We recommend that the ampoule cell test chamber should be cleaned once a week. Clean by applying alcohol to a swab or Q-tip and thoroughly swab the chamber. Allow 1/2 hour to dry before using the Reader.