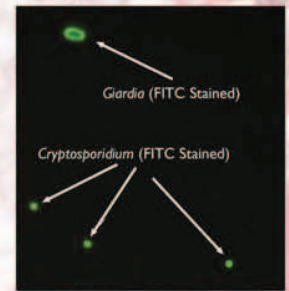
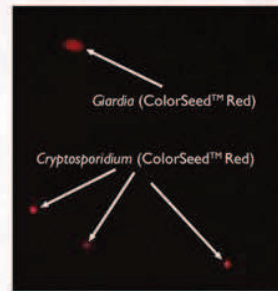


ColorSeed™

BTF PRECISE MICROBIOLOGY

- Internal QA for *Cryptosporidium* and *Giardia*
- Provides Percentage Recovery with Every Test
- Robust and Easy to Use



ColorSeed™ C&G is a revolutionary new patented quality assurance system for testing water for *Cryptosporidium* and *Giardia*. ColorSeed™ C&G enables accurate water testing and simple interpretation of results.

Substantial variations in the performance of testing have been observed in the detection and enumeration of *Cryptosporidium* and *Giardia*. The accepted detection methods for these organisms involves a concentration step, a purification step and a final detection step. Losses of (oo)cysts occur at every step throughout the testing process.

ColorSeed™ C&G enables the losses incurred throughout complex microbiological testing to be accurately measured. ColorSeed™ C&G is a vial containing exactly 100 *Cryptosporidium* and 100 *Giardia* that have been permanently labelled with a red fluorescent dye. When added to a sample, ColorSeed™ C&G provides the analyst with an internal quality control parameter against which the performance of every test can be measured.

To use ColorSeed™ C&G, one simply unscrews the cap of the sealed and sterilised vial, and adds the contents to the sample to be analysed. With ColorSeed™ C&G added, the sample is analysed using any of the accepted methodologies. During the final microscopic detection stage of the test, the analyst scans the purified sample for FITC-stained (oo)cysts. Upon sighting an (oo)cyst in the sample, the filter block of the microscope is changed, and the organism is viewed under red-fluorescence conditions. If the organism is fluorescent red it is counted as a ColorSeed™ C&G, if not the organism is counted as intrinsic to the sample. Upon completion of the microscopy the total number of ColorSeed™ C&G (oo)cyst detected is recorded. This number is the percentage recovery achieved in that test. The number of intrinsic organisms detected is then divided by the recovery and multiplied by 100, to provide an accurate result of how many (oo)cysts were originally in the sample.

ColorSeed™ C&G is a 5mL test-tube containing one hundred red fluorescent *Cryptosporidium* oocysts and one hundred red fluorescent *Giardia* cysts in approximately 1mL of saline solution. ColorSeed™ C&G counts are extremely accurate. A patented automated flow cytometry technology is used to accurately dispense (oo)cysts. The standard deviation of the number of (oo)cysts in each tube is less than 2.5.

ColorSeed™ C&G tubes are sealed and sterilised by exposing each batch to a specified dose of gamma irradiation. This ensures that ColorSeed™ C&G is stable for 4 months and that the organisms in the tube are inactivated.



TCS Biosciences Ltd

Botolph Claydon
Buckingham
MK18 2LR
United Kingdom

t: +44 (0) 1296 714222
f: +44 (0) 1296 714806
e: sales@tcsgroup.co.uk



www.tcsbiosciences.co.uk