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Technical Support Note

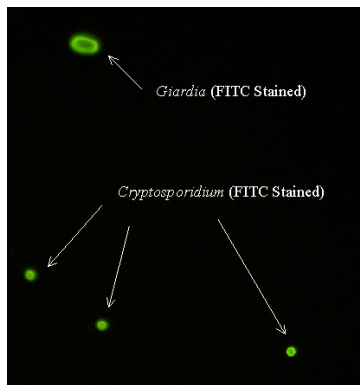
Is my microscope suitable for ColorSeed™ C&G ?

When using ColorSeed™ C&G it is important that the epi-fluorescence microscope has the correct optical filters, if the correct optical filters are not used, ColorSeed™ *Cryptosporidium* and *Giardia* will not be clearly differentiable from naturally occurring *Cryptosporidium* and *Giardia*.

Two filter sets are required when using ColorSeed™ C&G

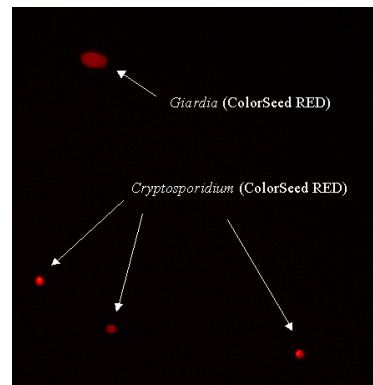
Filter Set One (Standard FITC Block)

- Used when observing FITC Antibody Staining
- Blue illumination light, Green observed



Filter Set Two (Texas Red® Block)

- Used when observing Texas Red® ColorSeed™ Staining
- Green illumination light, Red observed



IMPORTANT! THE RED FILTER SET SHOULD NOT LET THROUGH ANY FITC FLUORESCENCE.

A simple check can be performed to ensure that the red filter set does not let through any FITC fluorescence:

1. Stain a sample of *Cryptosporidium* or *Giardia* (not ColorSeed™) with FITC labelled antibody (use a higher than normal concentration, say 4x working strength, to ensure bright staining).
2. Examine the brightly stained cysts and oocysts using the FITC filter set and then switch the filter set to the red filter set. If there is no red fluorescence of the cysts and oocysts then the filter set is suitable for use with ColorSeed™. If red fluorescence is visible then your filter set needs to be changed. Contact your microscope manufacturer or service company for assistance.

The ideal filter set should provide optimal fluorescence for Texas Red® but no fluorescence of FITC.

Excitation: 580nm
Emission: 615nm

For further information in Europe please contact TCS Water Sciences at:

The rest of the world, contact BTF Pty Ltd at:

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