

# EasyStain™

BTF PRECISE MICROBIOLOGY



- IFA Reagent Against *Cryptosporidium* and *Giardia*
- IgG1 Specificity
- 15 Minute Incubation

EasyStain™ is an immunofluorescence reagent designed for use in testing water samples for the presence of *Cryptosporidium* oocysts and *Giardia* cysts. When a water sample is stained with the EasyStain™ reagent all oocysts or cysts present in the sample will fluoresce bright green. Stained samples can then be examined using fluorescence microscopy, flow cytometry or laser scanning cytometry.

The detection of oocysts and cysts in water is extremely difficult. There are many particles present in water samples that cross-react with *Cryptosporidium* and *Giardia*-specific antibodies. These particles can easily be mistaken for *Cryptosporidium* oocysts or *Giardia* cysts. EasyStain™ does not cross-react with particles present in water samples. This superior specificity is achieved by using monoclonal antibodies (mAbs) of the IgG1 isotype.

EasyStain™ utilises a patented method for producing IgG1 antibodies to *Cryptosporidium* and *Giardia*. These antibodies have been demonstrated to be far superior to other available antibodies.

The antibodies in EasyStain™ have been purified to a very high level to ensure that there is no contamination. The conjugated antibody is stored in a specially designed buffer that includes a novel blocking agent and a preservative.

EasyStain™ is a mixture of two monoclonal antibodies (mAb): a *Cryptosporidium*-specific IgG1 mAb and a *Giardia*-specific IgG1 mAb. The reagent is supplied as a working solution and does not require dilution.

A Wash Buffer is supplied that is used to wash excess antibody from slides or membranes. The Wash Buffer has been specially designed to increase fluorescence and reduce fading. It does not require dilution.

A Positive Control, containing both irradiated *Cryptosporidium* oocysts and *Giardia* cysts is supplied. Cysts and oocysts are at a concentration of approximately 200 to 400 per 50 µl. Mounting Medium is supplied that is applied to the microscope slide before adding a coverslip. The Mounting Medium has been specially designed to reduce fading of the prepared sample.



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