

Datasheet: 2402-3007F

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|----------------------|---------------------------------|
| Description: | MOUSE ANTI CRYPTOSPORIDIUM:FITC |
| Specificity: | CRYPTOSPORIDIUM |
| Format: | FITC |
| Product Type: | Monoclonal Antibody |
| Clone: | BEL 0126 |
| Isotype: | IgG3 |
| Quantity: | 0.1 mg |

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

| | Yes | No | Not Determined | Suggested Dilution |
|--------------------|-----|----|----------------|--------------------|
| Flow Cytometry | ▪ | | | 1/5 - 1/50 |
| Immunofluorescence | ▪ | | | |

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

| | | | |
|---------------------------------------|--|----------------------------|--------------------------|
| Target Species | Protozoan | | |
| Product Form | Purified IgG conjugated to Fluorescein Isothiocyanate Isomer 1 (FITC) - liquid | | |
| Max Ex/Em | Fluorophore | Excitation Max (nm) | Emission Max (nm) |
| | FITC | 490 | 525 |
| Preparation | Purified IgG prepared by affinity chromatography on Protein G | | |
| Buffer Solution | Phosphate buffered saline | | |
| Preservative | 0.09% Sodium Azide (NaN ₃) | | |
| Stabilisers | 1% Bovine serum albumin | | |
| Approx. Protein Concentrations | IgG concentration 0.1mg/ml | | |
| Immunogen | Purified cryptosporidium oocysts from bovine faeces. | | |

Specificity

Mouse anti Cryptosporidium antibody, clone BEL 0126 recognizes a membrane antigen expressed by the oocysts of *Cryptosporidium* sp., an obligate enteric coccidian parasite of the phylum Apicomplexa that infects the gastrointestinal tract. The parasite is one of the most important enteric pathogens in both humans and animals ([Rose et al. 2002](#)). Since its first diagnosis in 1975

([Meisel et al. 1976](#)), Cryptosporidiosis, has become one of the most prominent public health concerns worldwide ([Rose et al. 2002](#)).

Cryptosporidium oocysts are resistant to chlorine and their small size makes removal by filtration difficult. Alternative methods have been developed such as UV and ozone treatment alongside monitoring using Immunofluorescence screening ([Rose et al. 2002](#)).

Cryptosporidiosis is a disease affecting the intestines of mammals which is spread through the fecal-oral route. The main symptom of is self-limiting diarrhea in people with intact immune systems. However, in immunocompromised individuals, such as AIDS patients, infection can cause permanent & life-threatening diarrhea ([Ma et al. 1984](#)).

Flow Cytometry Use 10ul of the suggested working dilution to label 1×10^6 cells in 100ul.

References

1. Mansfield, K.G. *et al.* (1997) Identification of an Enterocytozoon bienersi-like microsporidian parasite in simian-immunodeficiency-virus-inoculated macaques with hepatobiliary disease. [Am J Pathol. 150: 1395-405.](#)
2. Weigum, S.E. *et al.* (2016) Hollow silica microspheres for buoyancy-assisted separation of infectious pathogens from stool. [J Chromatogr A. 1466: 29-36.](#)

Further Reading

1. Meisel, J.L. *et al.* (1976) Overwhelming watery diarrhea associated with a cryptosporidium in an immunosuppressed patient. [Gastroenterology. 70: 1156-60.](#)
2. Rose, J.B. *et al.* (2002) Risk and control of waterborne cryptosporidiosis. [FEMS Microbiol Rev. 26: 113-23.](#)
3. Ma, P. (1984) Cryptosporidium and the enteropathy of immune deficiency. [J Pediatr Gastroenterol Nutr. 3 \(4\): 488-90.](#)

Storage

Store at +4°C or at -20°C if preferred.
Storage in frost-free freezers is not recommended.
This product should be stored undiluted. This product is photosensitive and should be protected from light.
Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

Shelf Life 18 months from date of despatch.

Health And Safety Information Material Safety Datasheet documentation #10041 available at:
10041: <https://www.bio-rad-antibodies.com/uploads/MSDS/10041.pdf>

Regulatory For research purposes only

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