Anti-Bovine PARAINFLUENZA 3 Monoclonal Antibody labelled with Fluorescein Isothiocyanate

BIO 030

Reagent for direct immunofluorescence

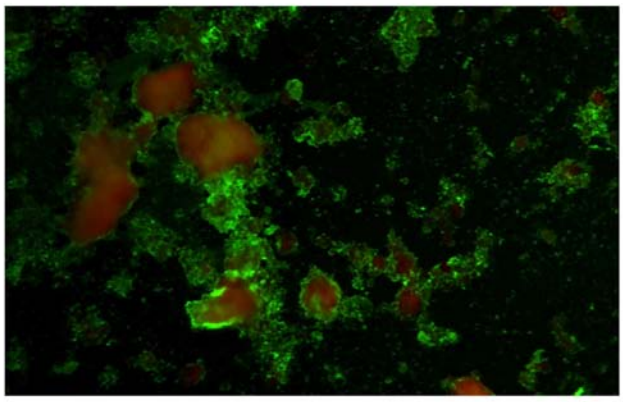
REAGENT FOR DETECTION OF BOVINE PARAINFLUENZA 3 ON TISSUE SECTION

OR CELL CULTURE

INTRODUCTION

Parainfluenza 3 was first isolated in the USA from the nasal mucus of cattle showing clinical signs of shipping fever. Its distribution in cattle has been found to be worldwide. Most reports of bovine PI3 virus activity have been in groups of young cattle with respiratory diseases such as enzootic calf pneumonia and shipping fever. Bovine PI3 virus infections are not invariably associated with disease, and subclinical infections often occur. In Europe, PI3 infection mostly occurs during the months from October to March. PI3 virus infection may be accompanied by concurrent infection of the respiratory tract by other viruses such as respiratory syncytial virus, adenovirus, and BVDV. In outbreaks of bovine respiratory disease, it is not possible to diagnose PI3 virus infection on clinical grounds alone. The direct immunofluorescence assay enables one to detect the presence of PI3 in frozen tissue sections made from lung fragments (preferable from the cranioventral lobes at the boundary between the diseased and apparently normal tissue) or epithelial tissue from the upper respiratory tract (large bronchi, trachea, and pituitary mucosa). The reagent can also be used to identify the virus's presence on an infected cell culture.

EXAMPLE OF RESULTS



Fix the cell preparation (cell cultures or tissue sections) for 15 minutes at room temperature with one of the following fixators :

- Paraformaldehyde 2 % in PBS
- Acetone solution (9 volumes of acetone and 1 volume of water).
- Isopropanol
- Ethanol

Rince with PBS.

Dilute the conjugate twentyfold with a PBS-Evans blue solution made up according to the following formula:

PBS - Blue Evans

NaCl:	8 gr
KH2PO4:	0.2 gr
KCl:	0.2 gr
Na2HPO4 . 2H2O:	1.15 gr
Blue Evans:	0.01 gr
NaN3:	0.1 gr
H20	1 L

Incubate the sample with the fluorescein-labelled conjugate for 1 hour at room temperature. At the end of this incubation period rinse the cell preparation with a PBS solution. Dry the cell preparation, then add the mounting medium prepared as follows:

Mounting medium

Glycerol	9 volumes
PBS	1 volume

Examine the cell preparation under a microscope equipped for detecting fluorescence.

COMPOSITION: One vial of 500 µl

STORING THE CONJUGATE: The conjugate must be stored at 4°C. It must never be frozen.

STABILITY: One year at 4°C

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