



Anti-Classical Swine Fever Virus Monoclonal Antibody labelled with Fluorescein Isothiocyanate

BIO 272

Reagent for direct immunofluorescence

REAGENT FOR DETECTION OF CLASSICAL FEVER VIRUS ON TISSUE SECTION

OR CELL CULTURE

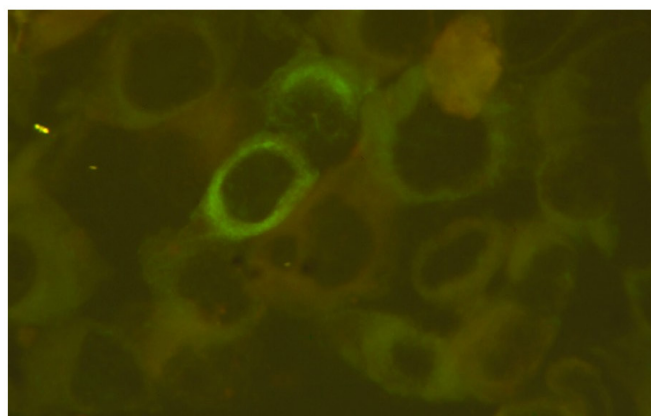
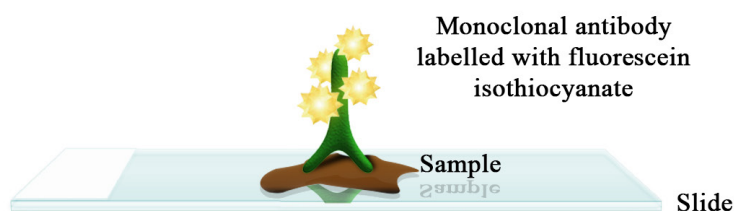
Classical swine fever (CSF) or hog cholera is an extremely contagious disease of swine with high mortality, especially in young pigs. It is caused by a small 44 nm-in-diameter enveloped virus belonging to the genus Pestivirus (Flaviviridae family). The CSF virus is transmitted by direct or indirect contact between animals via the blood, tissues, secretions, and excretions of sick or dead animals. The routes of infection are ingestion, inhalation, genital infection, and skin abrasions.

The disease is present across large areas of Asia, Central America, and South America, as well as in some parts of Europe and Africa. Many countries are free of the disease. The official diagnosis of classical swine fever currently recognised by the International Office of Epizootics (OIE) entails isolating the viral strains in a susceptible cell line and identifying them by an immunological test (direct or indirect immunofluorescence assay or direct or indirect immunoperoxidase assay). ELISA tests are also recognised, but only as serological tests.

BIO 272 reacted with all CSFV strains tested (21 strains originated from Belgium, France, Germany, Switzerland, Austria, The Netherlands, USA, Italy and Czech republic. BIO 272 did not show any reactivity with 9 BVDV strains tested.

BIO 272 is specific for E2 protein.

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
KH ₂ PO ₄ :	0.2 gr
KCl:	0.2 gr
Na ₂ HPO ₄ . 2H ₂ O:	1.15 gr
Blue Evans:	0.01 gr
NaN ₃ :	0.1 gr
H ₂ O	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

