

TEST KIT COMPONENTS

1 **FASTest® E.coli –K99 Strip Test Kit** contains

- 10 Test Strips
- 10 Sample Tubes with 2.0ml buffer diluent
- Instructions for use

STORAGE & SHELF LIFE

- **STORE AT ROOM TEMPERATURE (+15°C to +25°C).**
- Stored correctly the product can be kept up to the expiry date.
- Avoid components being subject to excessive heat or freezing.

SAMPLES

- Only calf faeces can be examined using the **FASTest® E.coli-K99 Strip**.
- **Samples can be stored for up to 2 days at +2°C to +8°C.** For a longer storage period the faecal suspension can be stored at -20°C.
- The faeces sample must be mixed well (with a spatula) before taking the spoon sample. Care must be taken not to contaminate the sample with constituents like grass, mucous membrane or extremely bloody faeces to avoid non-specific reactions and migration interference.
- Incorrect sample volume could lead to brownish staining of the test and/or CONTROL line or a flowback of C-line materials into the sample buffer fluid (no or weak appearance of the CONTROL line). The test must be repeated using correct sample volume.

PRECAUTIONS

- For veterinary diagnostic use only.
- **All sample material must be seen as potentially infectious for animals and humans.**
- Do not use test kit components from different kits, lot numbers or beyond the stated expiration date.
- Please follow the instructions precisely.

ACCURACY

Sensitivity	96%
Specificity	97%
Comparison Method	E.M., ELISA

SHOULD YOU HAVE ANY QUERIES OR REQUIRE FURTHER TECHNICAL INFORMATION, PLEASE CALL OUR DIAGNOSTICS HELP LINE ON 01798 874871



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FASTest® E.coli-K99 Strip

FOR VETERINARY USE ONLY

Manufactured by MEGACOR Diagnostik GmbH
and Distributed exclusively in the UK by
Vetlab Supplies Ltd.

INSTRUCTIONS FOR USE

INTRODUCTION

Diarrhoea is a common problem in calves, typically in the first 7 to 14 days of life and is often caused by more than one pathogenic agent e.g. Rotavirus, Coronavirus, *Cryptosporidium*, *Salmonella*, *Giardia* and **especially enterotoxigenic strains of *E.coli* (e.g. K99 (F5), (F41).** Making a quick diagnosis on-site is difficult and usually based only on clinical signs. Therefore, as most diarrhoea causing agents do not show a clear pathogenic clinical picture especially in cases of mixed infection, it is useful to have a diagnostic tool to detect the causative agent.

Using **FASTest® E.coli-K99 Strip** allows the veterinarian to make a rapid and specific diagnosis and to decide quickly on the most appropriate therapy. This rapid identification saves time and can be used to suggest future management strategies to prevent further outbreaks of disease optimising calves health and farm productivity.

TEST PRINCIPLE

The **FASTest® E.coli-K99 Strip** contains two unique monoclonal antibodies. One of these monoclonal antibodies is bound to colloidal gold particles, the second is immobilised in the Test zone of the strip. If the stool sample extract contains K99 main pillar antigens, these will form an antigen-antibody complex with the gold particles. As this complex migrates along the Test zone of the membrane to the immobilised capture antibody, a pink-purple line is formed indicating a positive test result. The remaining conjugate migrates to a second antibody on the Control zone of the strip forming a second pink-purple line. This indicates correct performance of the test.

Please turn over for Test Procedure

FASTest® E.coli-K99 Strip Test Procedure

For each test you will need 1 Test Strip, 1 Sample Tube with buffer diluent and spoon.

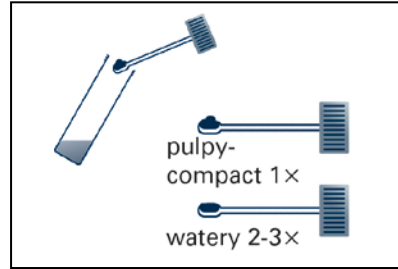
1. Specimen Collection and Dilution

- Mix the faeces sample well with a spatula.
- Open the sample tube and take out the sample spoon, provided with the kit.
- Take a small portion of faeces with the spoon (as described below) and place it in the sample tube.

Pulpy-compact faeces: 1 level spoon
Watery faeces: 2 – max. 3 spoons

Please be careful not to take too much faeces as this may cause lack of migration on the test strip.

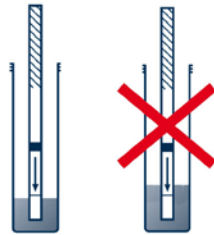
- Screw on the cap tightly to avoid leakage.
- Shake the tube until the sample has been homogenised into the buffer diluent.
- Leave the sample tube until the large particles have settled to the bottom of the tube (1-5 mins).



2. Test Procedure

- Remove the test strip from its pouch.
- Label the strip with a patient name or ID number.
- Introduce the strip vertically with the white arrows pointing downwards into the sample tube with the faecal suspension.
- Leave to stand upright and incubate for **5 minutes** at room temperature.

NB: DO NOT TOUCH THE WHITE CENTRAL REACTIVE AREA OF THE STRIP OR ALLOW IT TO COME INTO CONTACT WITH THE FAECAL SUSPENSION.



- Remove the strip, draining off any excess solution on the inside of the tube and read immediately.

3. Reading of Test Results

The strip must be read after **exactly 5 mins.** incubation in the faecal solution.



POSITIVE RESULT

In addition to the **pink-purple line (CL)** in the **Control zone**, a clearly visible **pink line (TL)** also appears in the **Test zone**. The faeces sample contains E.coli-K99 antigens.



NEGATIVE RESULT

Only the **pink-purple line (CL)** appears in the **Control zone**. No visible line is seen in the **Test zone**. The faeces sample does not contain E.coli-K99.



FAILED TEST

If there are no lines visible after 10 mins. in the Test zone and the Control zone of the strip, the test should be repeated using a new strip.

ANY PROBLEMS? Please ring 01798 874871