

Focused on Veterinary Diagnostics

FASTest® E.coli-K99 Strip ad us. vet.

Bacterial diarrhoea pathogen of the Neonatal Calf Diarrhoea Complex

Fast test for the qualitative detection of *E.coli* ssp. K99 (F5) in feces of the calf

Fast aetiological diagnostics

High infectivity needs immediate and specific treatment

Identification of asymptomatic chronic carriers

Fast, long-term and effective prophylaxis in the whole stock

Effective decrease of economic damage



- Simple test procedure with feces
- Fast test interpretation after 5 minutes
- Reliable clinical diagnostics
- Sensitivity 96.9% & Specificity 97.0%
- Storage at room temperature (15-25°C)
- Long shelf life
- Compact test box with 2 or 10 tests

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The diarrhoea pathogen *Escherichia coli* (*E.coli*) K99 (F5) is a highly infectious bacterium occurring world-wide. Normally, the bacteria appear together with other pathogens of the Neonatal Calf Diarrhoea Complex, leading to severe diarrhoea in calves.

The prevalences differ, depending on the stock, between 3 and 54%. Mostly, calves of the age between 1 and 5 days are affected.

The different virulence factors (haemolysins, adhesins, enterotoxins (in ETEC) and Shiga toxins) of *E.coli* lead to various clinical symptoms of diarrhoea.

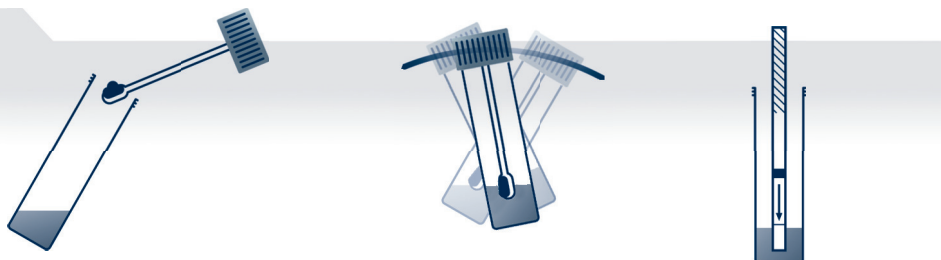
E.coli K99 (F5) belongs to the enterotoxin producing *E.coli* bacteria. These show specific surface structures, so-called fimbria (F5 antigens) attaching to enterocytes of the intestinal mucosa, thus leading to massive diarrhoea, partially with lethal consequences.

The fecal-orally transmitted bacteria colonize in the distal small and large intestine. In young calves, small amounts of hydrochloric acid secretion in the abomasum prevent mortification of the *E.coli* bacteria, leading to a bacterial *E.coli* invasion of the intestine, together with secretory diarrhoea.

Caused by the high infectiveness, often a population problem arises. Here, next to aetiological diagnostics of all animals, especially older ones (asymptomatic chronic carriers!), the management of keeping and feeding shall be examined, too.

The **FASTest® E.coli-K99** Strip offers the veterinarian a fast and reliable on-site proof of *E.coli* K99 (F5) for a fast and targeted initiation of suitable therapy and prophylaxis measurements and therefore a reduction of the calf loss rate.

Test procedure



Test interpretation



POSITIVE



NEGATIVE



E.coli K99 (F5) often comes up together with other diarrhoea pathogens (Cryptosporidium, Rota and Corona viruses, Giardia and others). Therefore, for diarrhoea it is generally advisable to use the parallel tests **FASTest® BCV** Strip, **FASTest® CRYPTO** Strip, **FASTest® ROTA** Strip, **FASTest® GIARDIA** Strip and the combined test **FASTest® D4T** bovine.

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