



# Test strips for the detection of *Clostridium perfringens* Epsilon Toxin

**BIO K 176**  
(1 X 10 strips)

Enterotoxaemia is a fatal enteric disease that affects all species of domestic animals and is attributable to a toxigenic type of *Clostridium perfringens*. The latter is an anaerobic, strongly gram-positive bacterium that has the ability to form heat-resistant endospores. This bacterium is grouped into five types (types A, B, C, D and E) according to the four major lethal toxins, alpha, beta, epsilon, and iota ( $\alpha, \beta, \epsilon, \iota$ ) produced. *C.perfringens* has been shown to be a cause of human diseases such as gas gangrene (clostridial myonecrosis), food poisoning, necrotising enterocolitis of infants, and enteritis necroticans (pigbel). It is also the causative agent of lamb dysentery, ovine enterotoxaemia (struck) and pulpy kidney disease of sheep, and other enterotoxaemic diseases of lambs and calves. Large amounts of toxin in addition to large numbers of *C.perfringens* cells can usually be detected in the intestinal fluid of the diseased or dead animals. As *C.perfringens* is a natural commensal of human and animal intestines, identifying of the bacterium is not enough. Toxinotyping and quantifying of the isolated strains are essential. The chromatographic lateral flow immunoassay (strip) works with culture supernatants as well as biological probes such as liquid intestinal contents and pericardial- or peritoneal fluid.

### Use of the kit

The kit is designed to detect *Clostridium perfringens* Epsilon Toxin in biological fluids or in culture supernatants.

### Reliable Results

The use of monoclonal antibody as conjugate to detect Epsilon toxin ensures excellent specificity and very reliable results.

### Ease-of-Use

Minimal hands-on-time  
Room temperature incubation  
Results available in 10 minutes

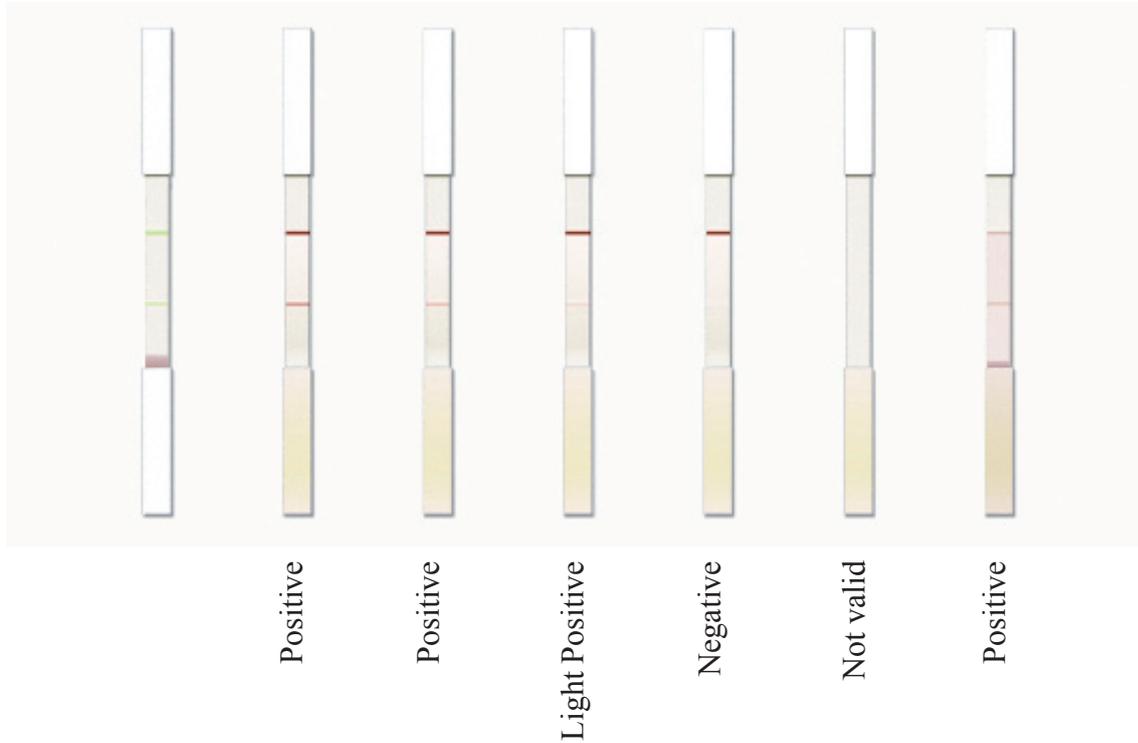
Toxinotypes	Alpha	Beta	Epsilon	Iota
A	++	-	-	-
B	+	++	+	-
C	+	++	-	-
D	+	-	++	-
E	+	-	-	++



Bio-X Diagnostics



## Interpreting the results



1 line = negative  
2 lines = positive



Bio-X Diagnostics

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