

STRIPS FOR THE DETECTION OF ROTAVIRUS, CORONAVIRUS, E. COLI F5 (K99), CS31A AND

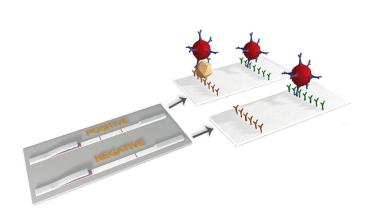
CRYPTOSPORIDIUM IN CALF FAECES

(5 DEVICES - 5 PATHOGENS)

Diarrhoea is a major cause of mortality in young cattle under one month. Bovine neonatal gastroenteritis is a multifactorial disease. It can be caused by viruses (coronavirus or rotavirus), by bacteria: (Salmonella, pathogenic strains of E. coli) or by protozoa such as Cryptosporidium. The diagnosis of the etiological agent of diarrhoea can be performed only in the laboratory because the clinical signs do not suffice to distinguish between these different microorganisms. It is possible to identify these agents by means of different techniques. The ELISA technique is rapid, reliable and particularly suited to the analysis of large numbers of samples. When the number of samples to be analyzed is low, the ELISA is often too expensive. Lateral immunochromatography is gradually emerging as a reliable alternative in the diagnosis of gastroenteritis due to its simplicity, rapidity, sensitivity and specificity. The strips are particularly easy to use.

■ ABOUT THE PRODUCT : RAINBOW™ Calf Scours BIO K 371

RAINBOW™ Calf Scours-BIO K 371 strip is a vertical flow immuno-chromatographic device, where the antigen of interest is captured onto the membrane by a specific monoclonal antibody, whilst a second colloidal gold labelled antibody will allow the capture to be visible.



Use of the kit

RAINBOW ™ Calf Scours-BIO K 371 is designed to detect rotavirus, coronavirus, F5 and CS31A attachment factor of colibacillus and Cryptosporidium in faeces of calves.

Reliability of results

The excellent sensitivity and specificity of the RAINBOW™ Calf Scours-BIO K 371 are achieved by using monoclonal antibodies. They are used as conjugates and to capture pathogens on the membrane.

Following high quality standards, the RAINBOW™ Calf Scours-BIO K 371 is validated in comparison with the MULTISCREEN™ AgELISA Digestif-BIO K348 and the Multiscreen™ AgELISA Digestif-BIO K 366 on a large quantity of samples.







■ Comparaison with Multiscreen[™] AgELISA Digestif-BIO K 366 and Multiscreen™ AgELISA Digestif-BIO K 348:

- Oriteria: relative sensitivity (SE), relative specificity (SP), positive predictive value (PPV), negative predictive value (NPV) and kappa concordance factor
- Scanned strips (using a strip reader)
- Validation :

E.COLI F5	REFERENCE ELISA			
>		+	-	
BOV LF URS	+	58	8	66
S C AIN	-	0	44	44
∠ 0,		58	52	110

Se relative	100,00 %	PPV	87,88 %
Sp relative	84,62 %	NPV	100,00 %
Карра	0,85	EXCELLENT	

E.COLI CS31A	REFERENCE ELISA			
>		+	-	
BO URS URS	+	25	3	28
SGA	-	6	104	110
~ °′		31	107	138

SE RELATIVE	80,65 %	PPV	89,29 %
SP RELATIVE	97,20 %	NPV	94,55 %
Карра	0,81	EXCELLENT	

ROTA	REFERENCE ELISA			
>		+	-	
BOV LF URS	+	89	5	94
S S A I	-	19	268	287
~ 01		108	273	381

Se relative	82,41 %	PPV	94,68 %
Sp relative	98,17 %	NPV	93,38 %
Карра	0,84	EXCELLENT	

CORONA	REFERENCE ELISA			
>		+	-	
BO LF URS	+	38	6	44
N Q Q	-	6	51	57
∞ 0,		44	57	101

Se relative	86,36 %	PPV	86,36 %
Sp relative	89,47 %	NPV	89,47 %
Карра	0,76	GOOD	

CRYPTO	REFERENCE ELISA			
>		+	-	
P B URS	+	132	10	142
SG SE	-	12	227	239
<u>∞</u> 01		144	237	381

SE RELATIVE	91,67 %	PPV	92,36 %
Sp relative	95,78 %	NPV	94,98 %
Карра	0,88	EXCELLENT	

Manipulation is extremely easy, prevents from any mistake and keeps the READING ZONE FREE FROM DIRTY MARKS.











Bio-X Diagnostics is ISO 9001:2008

BIO-X DIAGNOSTICS

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