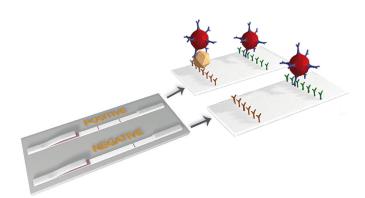


STRIPS FOR THE DETECTION OF ROTAVIRUS, CORONAVIRUS, E. COLI F5 (K99), CRYPTOSPORIDIUM AND CLOSTRIDIUM PERFRINGENS IN CALF FAECES

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 306

RAINBOW™ Calf Scours-BIO K 306 strip is a vertical flow immunochromatographic 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 306 is designed to detect rotavirus, coronavirus, F5 attachment factor of colibacillus, Cryptosporidium and *Clostridium perfringens* in faeces of calves.

Reliability of results

The excellent sensitivity and specificity of the RAINBOW™ Calf Scours-BIO K 306 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 306 is validated in comparison with the Multiscreen™ AgELISA Digestive-BIO K 348 and the Monoscreen™ AgELISA Clostridium perfringens-BIO K 269 on a large quantity of samples.





■ Comparaison with Monoscreen[™] AgELISA Clostridium perfringens-BIO K 269 and Multiscreen[™] AgELISA Digestive-BIO K 348:

• Criteria : 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			
RAINBOW CALF SCOURS			+	-	
		+	58	8	66
		-	0	44	44
			58	52	110
Se relative	100,00 %		PPV	87,88 %	
Sp relative	84,62 %		NPV	100,00 %	
Карра	0,85		EXCELLENT		

CLOS. PERI	F.	REFERENCE ELISA				
3 (0			+	-		
RAINBOV CALF SCOURS		+	137	26	163	
		-	25	175	200	
2 %			162	201	363	
Se relative	84,57 %		PPV	84,05 %		

NPV

GOOD

ROTA		REFERENCE ELISA				
2 10			+	-		
RAINBOW CALF SCOURS		+	89	5	94	
		-	19	268	287	
			108	273	381	
Se relative	82,41 %		PPV	94,68 %]	
Sp relative	98,17 %		NPV	93,38 %		
Карра	0,84		EXCELLENT			

CORONA		REFERENCE ELISA			
RAINBOW CALF SCOURS			+	-	
		+	38	6	44
		-	6	51	57
			44	57	101
Se relative	86,36 %		PPV	86,36 %]
Sp relative	89,47 %		NPV	89,47 %	
Карра	0,76		GOOD		

СКУРТО			REFERENCE ELISA		
N K			+	-	
RAINBOV CALF SCOURS		+	132	10	142
		-	12	227	239
~ ~ ~			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.

87,50 %



Sp relative

Карра

87,06 %

0.72









Bio-X Diagnostics is ISO 9001:2008 certified to assure the best to its customers

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