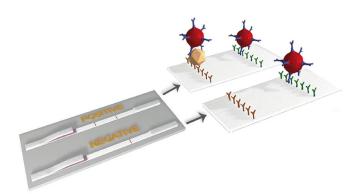


STRIPS FOR THE DETECTION OF ROTAVIRUS, CORONAVIRUS, E. COLI F5 (K99) AND CRYPTOSPORIDIUM IN CALF FAECES

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 288

RAINBOW™ Calf Scours-BIO K 288 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 288 is designed to detect rotavirus, coronavirus, F5 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 288 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 288 is validated in comparison with the MULTISCREEN™ AgELISA Digestif-BIO K 348 on a large quantity of samples.





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

 $_{\rm O}$ 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)

 $^{\circ}$ Validation :

ROTA		REFERENCE ELISA				
2			+	-		
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			

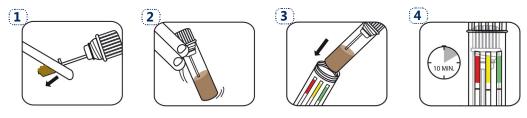
E.COLI F5		REFERENCE ELISA				
2			+	-		
LF BO		+	58	8	66	
RAINBOW CALF SCOURS		-	0	44	44	
			58	52	110	
Se relative	100,00 %		PPV	87,88 %		
Sp relative	84,62 %		NPV	100,00 %		
Карра	0,85		EXCELLENT			

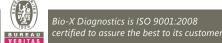
CORONA		REFERENCE ELISA				
RAINBOW CALF SCOURS			+	-		
		+	38	6	44	
SCOAIN		-	6	51	57	
<u>م</u> م			44	57	101	
Se relative	86,36 %		PPV	86,36 %		
Sp relative	89,47 %		NPV	89,47 %		
Карра	0,76		GOOD			

CRYPTO		REFERENCE ELISA				
RAINBOW CALF SCOURS			+	-		
		+	132	10	142	
AIN AIN		-	12	227	239	
~ ~ ~,			144	237	381	
Se relative	91,67 %		PPV	92,36 %		
Sp relative	95,78 %		NPV	94,98 %		
Карра	0,8	38	EXCELLENT			

■ MANIPULATION IS EXTREMELY EASY, PREVENTS FROM ANY MISTAKE AND KEEPS THE

READING ZONE FREE FROM DIRTY MARKS.





BIO-X DIAGNOSTICS

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