

SMARTSTRIPS

SmartStrips IgG Blood - BIO K 399

(BOX OF 10 DEVICES)

STRIPS FOR MEASURING IMMUNITY TRANSFER IN CALVES

SmartStrips IgG Colostrum - BIO K 405

(BOX OF 10 DEVICES)

STRIPS FOR MEASURING COLOSTRUM QUALITY

The calf is born with a competent immune system but one that is practically devoid of gamma globulins and hypo-reactive at a time when it is going from a sterile to a hostile environment. Thus, maternal passive immunity transfer via the colostrum, along with early establishment of intestinal flora, is the calf's first – and crucial – system of defence against microbial attack :

- Voluntary protection in the case of antenatal vaccination of the dams
- "Involuntary" protection against germs in the breeding farm environment

Colostrum can provide the calf with a potentially massive amount of most G1 immunoglobulin (with smaller proportions of types G2, A, and M), as well as immunologically active cells and soluble elements with aspecific antimicrobial activity.

The IgG serum concentration in the postcolostral calf is highly predictive of the calf's general condition at weaning. It is thus vital to verify :

- the intrinsic quality of the colostrum that is collected and
- the IgG serum concentration in the calf after its distribution to eliminate the risk of passive immunity transfer failure.

Use of the kit

SmartStrips™ IgG sang - BIO K 399 is designed to measure immunity transfer in calves through a blood sample and to measuring colostrum quality.

Reliability of results

SmartStrips™ IgG has been validated against a reference laboratory method (ELISA) on a significant number of samples; SmartStrips™ IgG yields robust, reproducible results that are comparable to those of laboratory methods.

About the product SmartStrips™ IgG

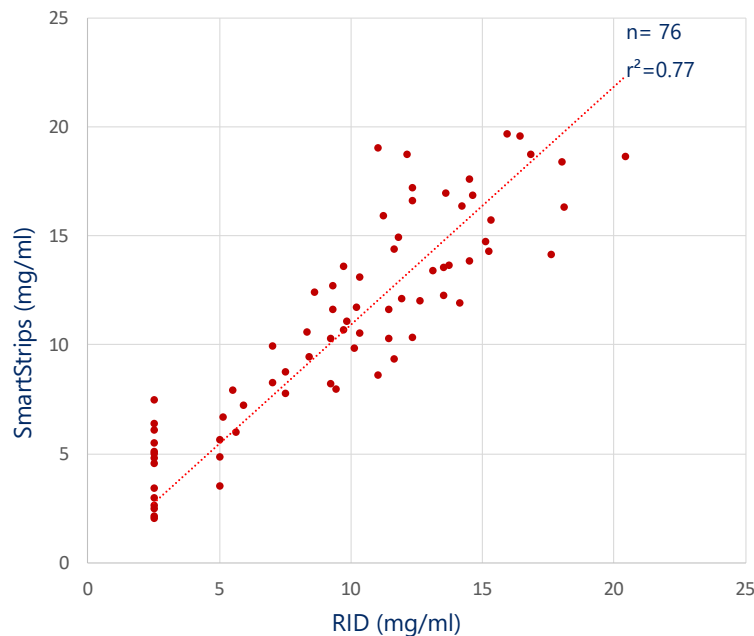
SmartStrips™ IgG, which is based on the SmartStrips™ App developed and produced by BIO-X DIAGNOSTICS, is the first veterinary tool for measuring immunoglobulin levels that is:

- usable on the farm
- quick: readings in under 10 minutes
- simple: handling kept to a minimum
- flexible: suitable for analysing colostrum and blood
- specific: measurement of the IgG1+G2 concentration
- quantitative: values expressed in mg/ml
- connected: data stored on and exported to remote computers

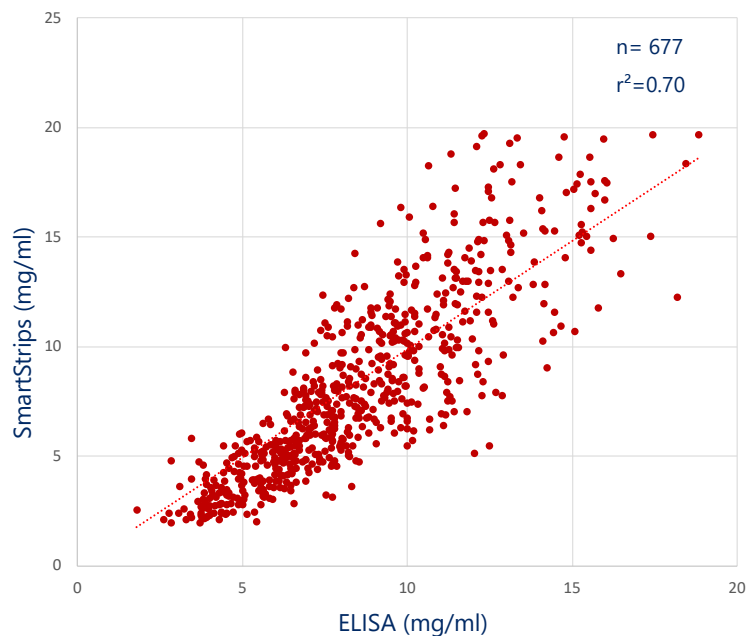


■ Comparaison with Monoscreen™ QuantELISA Bovine Immunoglobulin / competition - BIO K 165 and Radial ImmunoDiffusion (RID) :

> Blood results

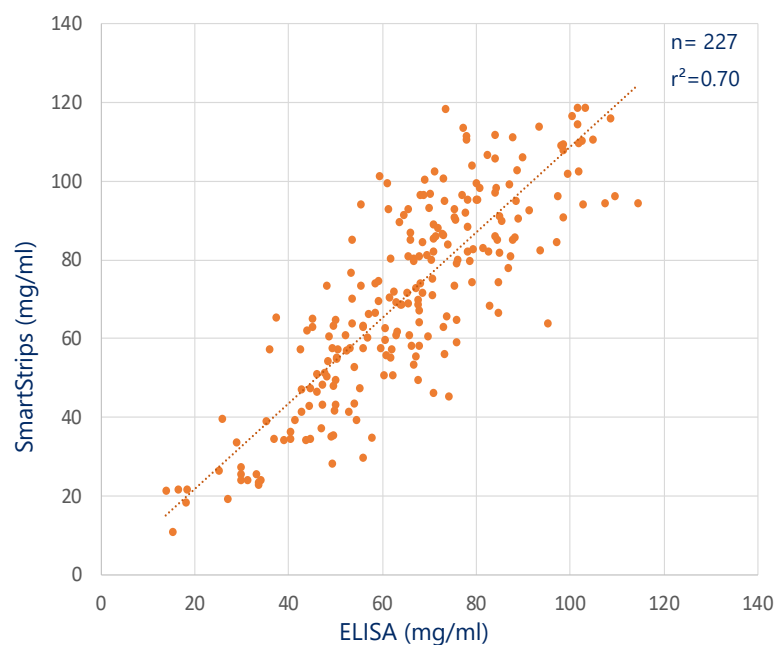


	RID			
	<10 mg/ml	10 à 15 mg/ml	15 à 20 mg/ml	>20 mg/ml
SmartStrips >20 mg/ml	0	7	15	48



	ELISA			
	<10 mg/ml	10 à 15 mg/ml	15 à 20 mg/ml	>20 mg/ml
SmartStrips >20 mg/ml	13	21	36	7

> Colostrum results



	ELISA			
	<60 mg/ml	60 à 90 mg/ml	90 à 120 mg/ml	>120 mg/ml
SmartStrips >120 mg/ml	2	4	15	8