Brucella FPA

Product # B1001 B1002 B1003 B1004



The Ellie's **BRUCELLA FPA** is a semi-quantitative test using Fluorescence Polarization technology designed to determine the presence of antibodies in serum, plasma, or milk samples, against species of the genus Brucella which produce smooth colonies (*B. melitensis*, *B. abortus* and *B. suis*). The diagnostic test uses an O-chain polysaccharide (OPS) extracted from **B. melitensis** and **B. abortus** and conjugated with fluorescein. The presence of antibodies to OPS is indicative of current or recent infection with Brucella. The assay time is only a few minutes and the test can be run in the field or in a lab. In a high throughput environment, thousands of samples can be processed daily with minimum investment in infrastructure.

QUICK • EASY • ACCURATE • SEMI-QUANTITATIVE

TEST OF CHOICE FOR VACCINATED POPULATION

B1001	Brucella Abortus Antibody Test Kit, FPA		
	Trade Name	Brucella FPA	
	Technology	Fluorescence Polarization Assay (FPA)	
	Antigen	Brucella abortus OPS	
	Analyte	lg all classes	
	Species	Bovine, bison, buffalo, cervids	
	Samples	Serum, plasma, and individual milk samples	
	Description	Worldwide version of the original Diachemix® Brucella FPA, with instructions which cover the use of the product in various species and for three types of samples. Recommended for testing cattle. Milk testing requires the use of ClearMilk™ Buffer, product code C1001.	

Brucella FPA results are correlating with the severity of the infection in animals. Antibodies against O-polysaccharide are present only during the current infection. Therefore, Brucella FPA is successfully used to distinguish infected from vaccinated herds and to assess the risk of abortion or milk secretion of Brucella organisms in each animal. This technology was successfully implemented in large dairy herds, affected with brucellosis outbreaks.

Samples	Sensitivity	Specificity	Reference method
Negative bovine serum samples n=1010 The negative bovine serums were obtained from the Texas Anim All sera were tested by a rapid serum agglutination (Brucella RE			RBT Laboratory, Austin, Texas.
Positive bovine serum samples n=207 Positive bovine samples were obtained from the National Veterin part of the NVSL Brucellosis Serum Bank, along with culture da	•	, ,	•
Negative bovine indiv. milk samples n=83 Brucella negative individual milk samples originated from Serbi were provided from the farms located near the town of Kraljevo		100% dered a brucellosi	iELISA s-free country. All samples

Standard	Sample Type	Dilution	Detection
OIEELISAspSS*	Individual serum	Undiluted I 1 : 64	Positive I Negative
OIEELISAwpSS	Individual serum	Undiluted	Positive

^{*} OIEELISAspSS - OIE International Standard ELISA Strong Positive Serum OIEELISAwpSS - OIE International Standard ELISA Weak positive Serum

B1002	Brucella S Antibody Test Kit, FPA II		
	Trade Name	Brucella FPA II	
	Technology	Fluorescence Polarization Assay (FPA)	
	Antigen	Brucella abortus (A) and Brucella melitensis (M) OPS	
	Analyte	lg all classes	
	Species	All animals including marine mammals	
	Samples	Individual serum and milk samples	
	Description	This product is a new version of the original Brucella FPA test kit. Three components of the test kit, Positive Control, Negative Control, and the Tracer, have remained unchanged from the original Diachemix® Brucella FPA product code B1001. The new formulation of the Sample Diluent provides more consistent data on the negative population of animals due to better handling of the background and Interference of samples. This kit contains both A and M tracers in a mix, and it is used when testing various species and for two types of samples for the presence of <i>B. melitensis</i> and <i>B. abortus</i> antibodies. Milk testing requires the use of ClearMilk™ Buffer, product code C1001.	

Standard	Sample Type	Dilution	Detection
OIEELISAspSS**	Individual serum	Undiluted I 1 : 64	Positive I Negative
OIEELISAwpSS	Individual serum	Undiluted	Positive
ISaBmS	Individual sheep and goat serum	1:16 1:200	Positive I Negative

B1003	Brucella S A	Antibody Test Kit, FPA Medical
	Trade Name	Brucella FPA Medical
	Technology	Fluorescence Polarization Assay (FPA)
	Antigen	Brucella abortus (A) and Brucella melitensis (M) OPS
	Analyte	lg all classes
	Species	Human
	Samples	Individual serum samples
	Description	This product is a qualitative test using Fluorescence Polarization technology designed to determine the presence of antibodies in patient serum against species of the genus Brucella which produce smooth colonies (<i>B. melitensis</i> , <i>B. abortus</i> and <i>B. suis</i> - Rev. sci. tech., OIE 1982). The presence of antibodies is indicative of prior infection with Brucella.

^{**} OIEELISAspSS - OIE International Standard Strong Positive Serum OIEELISAwpSS - OIE International Standard Weak positive Serum ISaBmS - International Standard Anti-Brucella Melitensis Serum

B1004	Brucella S Antibody Test Kit, FPA Milk		
	Trade Name	Brucella FPA Milk	
	Technology	Fluorescence Polarization Assay (FPA)	
	Antigen	Brucella abortus (A) and Brucella melitensis (M) OPS	
	Analyte	lg all classes	
	Species	Bovine	
	Samples	Individual and bulk milk samples	
	Description	This product is a qualitative test using Fluorescence Polarization technology designed to determine the presence of antibodies in individual or bulk milk samples, against species of the genus Brucella which produce smooth colonies (<i>B. melitensis</i> , <i>B. abortus</i> and <i>B. suis</i> - Rev. sci. tech., OIE 1982). It is used on smaller farms for quick assessment of the problem. It can br run in the field. The presence of antibodies is indicative of current or recent infection with Brucella.	

Instruments

For reading the reaction you will need an FP instrument. **Sentry 300** instrument is a portable, battery-powered field instrument that is reading one tube at a time. **Sentry MPX** is a high throughput laboratory microplate reader. **Instruments are available on loan or purchase, depending on your needs.**







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