

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	<i>Brucella abortus</i> OPS	
Analyte	Ig 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	n.a.	99.9%	RBT
The negative bovine serums were obtained from the Texas Animal Health Commission Brucellosis Laboratory, Austin, Texas. All sera were tested by a rapid serum agglutination (Brucella RBT) and yielded a negative result.			
Positive bovine serum samples n=207	99%	n.a.	culture, CFT
Positive bovine samples were obtained from the National Veterinary Services Laboratory (NVSL) of the USDA. The samples are part of the NVSL Brucellosis Serum Bank, along with culture data and typing of the strain of the infecting bacteria.			
Negative bovine indiv. milk samples n=83	n.a.	100%	iELISA
Brucella negative individual milk samples originated from Serbia which is considered a brucellosis-free country. All samples were provided from the farms located near the town of Kraljevo.			

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

* OIEELISAspSS - OIE International Standard ELISA Strong Positive Serum
OIEELISAwpsSS - 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	<i>Brucella abortus</i> (A) and <i>Brucella melitensis</i> (M) OPS	
Analyte	Ig 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 1 : 64	Positive Negative
OIEELISAwpsSS	Individual serum	Undiluted	Positive
ISaBmS	Individual sheep and goat serum	1 : 16 1 : 200	Positive Negative

B1003		Brucella S Antibody Test Kit, FPA Medical
Trade Name	Brucella FPA Medical	
Technology	Fluorescence Polarization Assay (FPA)	
Antigen	<i>Brucella abortus</i> (A) and <i>Brucella melitensis</i> (M) OPS	
Analyte	Ig 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 <i>Brucella</i> 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 <i>Brucella</i> .	

** OIEELISAspSS - OIE International Standard Strong Positive Serum
OIEELISAwpsSS - OIE International Standard Weak positive Serum
ISaBmS - International Standard Anti-Brucella Melitensis Serum

Trade Name	Brucella FPA Milk
Technology	Fluorescence Polarization Assay (FPA)
Antigen	<i>Brucella abortus</i> (A) and <i>Brucella melitensis</i> (M) OPS
Analyte	Ig 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 <i>Brucella</i> 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 assesment of the problem. It can br run in the field. The presence of antibodies is indicative of current or recent infection with <i>Brucella</i> .

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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