

ImmunoComb® Antibody Test Kit for Ovine Brucella

Product Information

General information

Brucellosis in small ruminant is mainly caused by *Brucella melitensis* and *Brucella ovis*. Infection by *Brucella abortus* has also been reported. The main symptoms of ovine and caprine Brucellosis are abortion, retained placenta, orchitis, epidymitis, and localized abscessation. Chronically infected animals perpetuate and spread the infection within and to other flocks, and to humans.

Brucella melitensis and *Brucella abortus* are highly pathogenic for humans. The route of infection for humans is ingestion of contaminated dairy products or direct contact with infected material, such as contaminated placentas or fetuses. An accurate diagnosis of Brucellosis depends mainly on serological tests, which are usually time consuming and require specialized laboratories.

Biogal's ImmunoComb® Ovine Brucella Antibody Test Kit has been developed and designed for the semi-quantitative determination of anti-Brucella antibody in sheep or goat serum or blood. The kit contains sufficient material for the performance of 30 tests. A larger size kit (Lab-size kit) offers 300 tests.

Main Applications:

1. For the serological examination of flocks for eradication or surveillance purposes.
2. For the serological diagnosis of Brucellosis in sheep and goats.

Interpretation of Results

The positive control serum has an anti-Brucella titer equivalent to 30 I.U./ml. In many countries, this is considered an unacceptable titer for unvaccinated, Brucella-free flocks.

Summary of ImmunoComb® Field Testing

No.	Test	No. of samples	TP ⁽¹⁾	FP ⁽²⁾	FN ⁽³⁾	Sensitivity %	Specificity %
1	Ovine Brucella	40	0	1		100	97
2	Ovine Brucella	192	40	5	1	97,5	96,8
3	Ovine Brucella	70	41	3	3	95,3	90
4	Ovine Brucella	262	79	7	2	99	92
5	Caprine Brucella	30	26	2	0	100	93
6	Caprine Brucella	31	15	1	1	94	93
7	Ovine Chlam.	154	48	10	0	100	91,4
8	Ovine Chlam.	118	22	8	0	100	92
9	Ovine Chlam.	36	26	2	0	100	92
10	Ovine Chlam.	91	21	2	0	100	90
11	Bovine Brucella	140	22	3	1	95	98

(1) TP = True Positive = CF > 1:5, or SAT > 1:40

(2) FP = False Positive

(3) FN = False Negative

References:

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