

S3 Table. Mean sensitivity and specificity estimates for the RBT and cELISA in sheep and goats taken from a literature search of global scientific publications from 1999-2019.

Reference	Methods used for test performance estimation	Location	Species	RBT: Se	RBT: Sp	cELISA: Se	cELISA: Sp	Sample size
Marín <i>et al.</i> , 1999 [1]	Se: Culture positive animals (naturally infected)	Unknown	S	1	1	-	-	115
Minas <i>et al.</i> , 2005 [2]	Se: Culture positive animals (naturally infected)	Greece	S	0.976	0.981	-	-	1017
Burriel <i>et al.</i> , 2004 [3]	Se: Vaccinated animals	Greece	SG	-	-	0.885	0.985	383
Minas <i>et al.</i> , 2007 [4]	Se: Serology positive animals from culture confirmed flocks	Greece	SG	0.866	0.976	-	-	4253
Ramírez-Pfeiffer <i>et al.</i> , 2008 [5]	Se: Animals from area with flock abortions and human cases/PCR or serology positive animals from culture confirmed flocks	Mexico & Canada	G	0.997	0.327	-	-	534
McGiven <i>et al.</i> , 2009 [6]	Se: Culture positive animals (naturally or experimentally infected)/Serology positive animals from culture confirmed flock/Animals from suspected outbreak flock in endemic area	UK & Unknown	SG	-	-	1	0.996	281
Thompson <i>et al.</i> , 2009 [7]	Se: Culture positive animals (naturally or experimentally infected)/Serology positive animals from culture confirmed flock/Animals from suspected outbreak flock in endemic area	UK & Unknown	SG	-	-	1	1	201
Perrett <i>et al.</i> , 2010 [8]	Se: Experimentally infected animals	UK	S G	- -	- -	1 1	0.998 1	484 2023
Weighted mean				0.899	0.919	0.987	0.998	

Se is sensitivity. Specificity was estimated in each study using samples collected from *Brucella* free animals. S is sheep, G is goats and SG is sheep and goats. RBT is the modified Rose Bengal plate test using the 3:1 serum to antigen ratio. cELISA is the Animal and Plant Health Agency, UK, competitive enzyme-linked immunosorbent assay. Weighted mean is the mean value weighted by sample size.

References

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