

## Supplementary Data

**TABLE S1. PRIMERS USED FOR DETECTION AND/OR CHARACTERIZATION OF *ANAPLASMA PHAGOCYTOPHILUM* AND/OR RELATED SPECIES AND *A. OVIS* IN SHEEP AND GOATS IN THE PRESENT STUDY**

Assay	Primer	Sequence 5' to 3'	Target gene	Amplicon size (bp)	Reference
First PCR					
<i>Anaplasma</i> sp. <sup>a</sup>	EE-1	TCCTGGCTCAGAACGAACGCTGGCGGC	<i>16S rRNA</i>	1433	Barlough et al. (1996)
	EE-2	AGTCACTGACCCAACCTAAATGGCTG			
Second PCR					
<i>A. phagocytophilum</i> <sup>b</sup>	SSAP2f <sup>c</sup>	GCTGAATGTGGGGATAATTAT	<i>16S rRNA</i>	641	Kawahara et al. (2006)
	SSAP2r <sup>c</sup>	ATGGCTGCTCCTTTCGGTTA			
Nested PCR					
<i>A. phagocytophilum</i> <sup>d</sup>	EphplgroEL-F	ATGGTATGCAGTTGATCGC	<i>groEL</i>	624	Alberti et al. (2005)
	EphplgroEL-R	TCTACTCTGTCTTGCGTT			
	EphplgroEL-F	ATGGTATGCAGTTGATCGC		573	
	EphgroEL-R	TTGAGTACAGCAACACCACCGGAA			
Single PCR					
<i>A. ovis</i>	AovisMSP4Fw	TGAAGGGAGCGGGGTATGGG	<i>msp4</i>	344	Torina et al. (2012)
	AovisMSP4Rev	GAGTAATTGCAGCCAGGGACTCT			
LAMP					
<i>A. ovis</i>	MSP4F3	GGGAGCTCCTATGAATTACAGAGAA TTGTTTAC	<i>msp4</i>	—	Ma et al. (2012)
	MSP4B3	CCGGATCCTTAGCTAACAGAGA ATCTTGC			
	MSP4FIP	GTGTTGCACACAGATTGCC			
	MSP4BIP	AGGCTTTGCTTCTCCGG			
	MSP4LF	GCCCCCTGTAGGCTAGCTTGTG-CCCA TATGTGTGTGCCGG			
	MSP4LB	TGGTGGTAGGTGGGTTCTACCA-ATGT GCGGGTATGTCCITG			
	MSP4F3	TGTCGACAAAGCTAGCACCC			
	MSP4B3	CGGACTCTTGACGAGTCTT			
Single PCR					
<i>A. ovis/A. marginale</i>	MSP45 <sup>e</sup>	GGGAGCTCCTATGAATTACAGAG AATTGTTTAC	<i>msp4</i>	852	de la Fuente et al. (2005)
	MSP43 <sup>e</sup>	CCGGATCCTTAGCTAACAGAGA ATCTTGC			

<sup>a</sup>First *Anaplasma* catch-all PCR.

<sup>b</sup>For *16S rRNA*, this PCR is a second PCR, performed after the first PCR, allowing the detection of *A. phagocytophilum* and related species according to Ybañez et al. (2012a).

<sup>c</sup>Primers used in PCR and sequencing reactions for detection and characterization of *A. phagocytophilum* and related species.

<sup>d</sup>Nested PCR performed for the specific detection of *A. phagocytophilum*.

<sup>e</sup>Primers used in PCR and sequencing reactions for detection and/or characterization of *A. ovis*.