

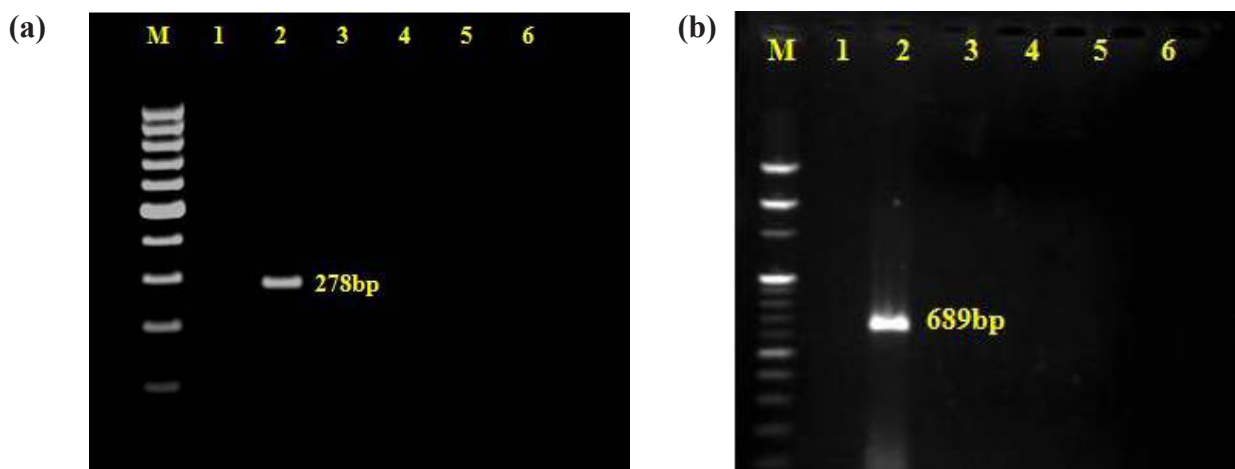


Comparative detection efficacy of primers targeting *SpeI-AvaI* restriction fragment and small subunit ribosomal RNA gene of *Babesia bigemina*

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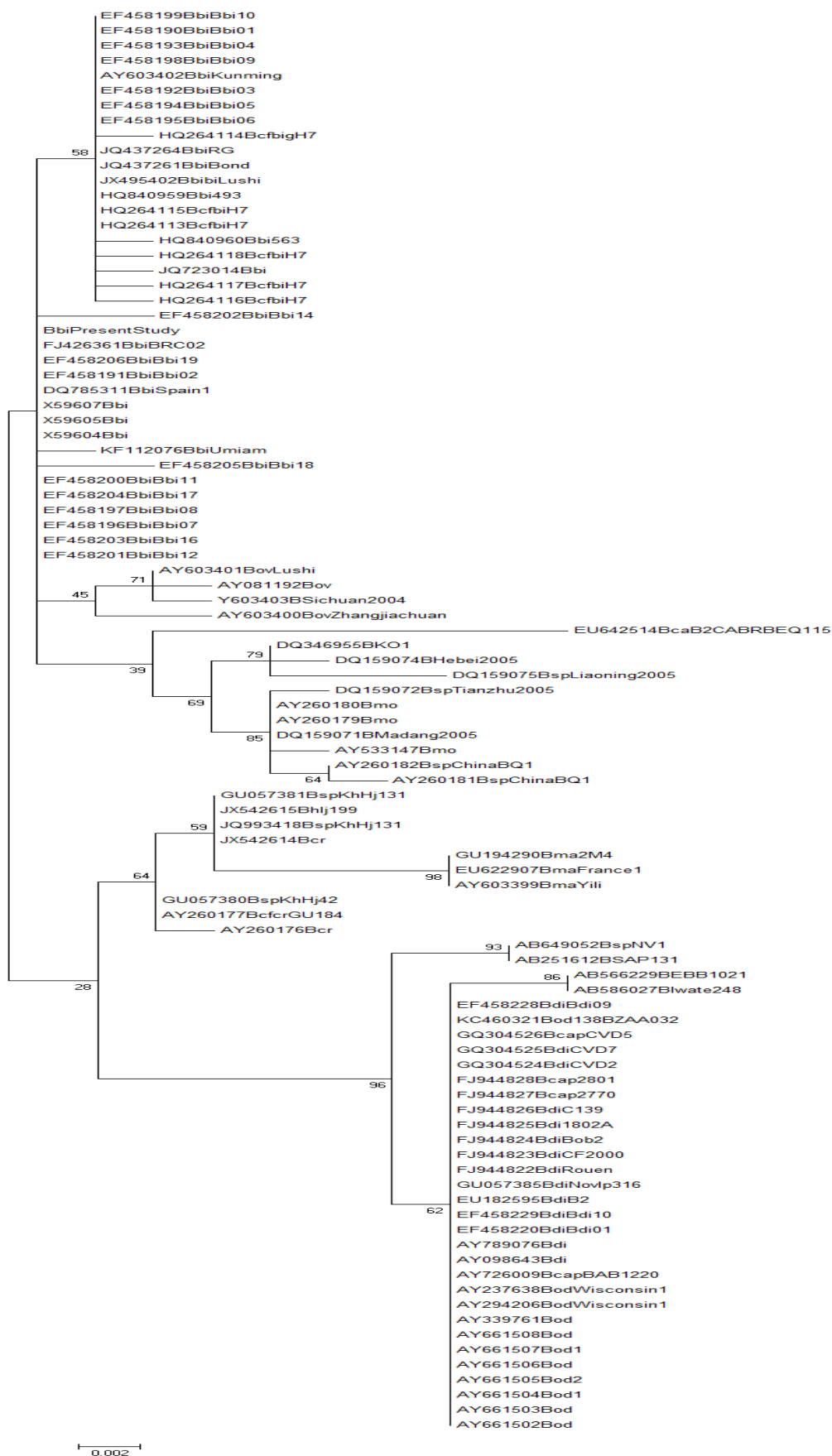
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Supplementary Fig. 1. (a) Agarose gel (1.5%) electrophoresis showing amplified DNA (278bp) for *SpeI-AvaI* restriction fragment *B. bigemina*. M =marker 100 bp; 1= Host leucocytes DNA, 2 =*B. bigemina* DNA, 3= *Theileria annulata* DNA, 4= *Anaplasma marginale* DNA 5= *Trypanosoma evansi* DNA, 6= Non template control. (b) Agarose gel (1.5%) electrophoresis showing amplified DNA (689 bp) of SSU rRNA gene of *B. bigemina* M =marker 100 bp plus, 1= Host leucocytes DNA, 2 =*B. bigemina* DNA, 3= *Theileria annulata* DNA, 4= *Anaplasma marginale* DNA, 5= *Trypanosoma evansi* DNA, 6= Non template control.

{SpeI-AvaI restriction fragment} [Babesiabigemina, Genomic, 288 nt]					
Sequence ID: gb S45366.1 S45366 Length: 288Number of Matches: 1					
Related Information					
Range 1: 6 to 284GenBankGraphicsNext MatchPrevious Match					
Score	Expect	Identities	Gaps	Strand	
252 bits(136)	1e-63	233/280(83%)	5/280(1%)	Plus/Plus	
Query 3	CATTAATTCTCTCCATACCCCTCCA	AACCACTCCTTCACCGCGGCACAGCCTCCGCAA	62		
Sbjct 6	CATCTAATTCTCTCCATACCCCTCCA	AACCACTCCTTCACCGCGTCGACAGACGCCGCAA	65		
Query 63	GCCAGTACGCCCGGAGCCAATTGAAGAAGTTA-ATGTATCAATTACTGTTTAAATGTTC		121		
Sbjct 66	GCCAGCAGCGCCCGGTGCCAATTTAGTATTAGCTCT-TTAGTACTTCACTAAGCTTA		124		
Query 122	TTA-TCACCTT--TTATCATAAGTTGTCACTTCATTTTCGTTTAAACCGCCTCAAGCACA		178		
Sbjct 125	TTAGTCATGTAATTATCATACGTTCTAACTGCTTCATCATCTTCACCGCACCAAGCACA		184		
Query 179	CCACTCAAAAATCCCATCACCGCATCACACAGCCTATCAAGGTCGGAGTACACAATCCCA		238		
Sbjct 185	CCACTCAAAAATCCCATCACCGCATCACACAGCCTATCCAGGTCGGAGTACACAATCCCA		244		
Query 239	GTGCCATCGTAGCCTTTGGCATCAGAGTTGAAGCAGAGGA	278			
Sbjct 245	GTGCCGTCGTAGCCTTTGGACTCAGAGTTGAAGCCGAGGA	284			
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LOCUS	S45366	288 bp	DNA linear	INV	08-MAY-1993
DEFINITION	{SpeI-AvaI restriction fragment} [Babesiabigemina, Genomic, 288				

Supplementary Fig. 2. Blast analysis of nucleotide sequences of *SpeI-AvaI* amplicon of Ludhiana, Punjab, India isolate (AB922127) with *SpeI-AvaI* restriction fragment of *B. bigemina* (S45366).



Supplementary Fig. 3. *Babesia bigemina* small sub-unit ribosomal gene phylogenetic tree. Bootstrap values given at the beginning of each branch.