

Table S1. Thermocycling conditions for *Theileria/Babesia* touchdown PCR

Cycle	Time	Temperature	Purpose
1 cycle	3 min	37°C	
1 cycle	10 min	94°C	Initial denaturation
2 cycles	20 sec	94°C	Denaturation of double-stranded DNA template
	30 sec	67°C	Annealing of primers
	30 sec	72°C	Extension of PCR products by <i>Taq</i> polymerase
2 cycles	20 sec	94°C	Denaturation of double-stranded DNA template
	30 sec	65°C	Annealing of primers
	30 sec	72°C	Extension of PCR products by <i>Taq</i> polymerase
2 cycles	20 sec	94°C	Denaturation of double-stranded DNA template
	30 sec	63°C	Annealing of primers
	30 sec	72°C	Extension of PCR products by <i>Taq</i> polymerase
2 cycles	20 sec	94°C	Denaturation of double-stranded DNA template
	30 sec	61°C	Annealing of primers
	30 sec	72°C	Extension of PCR products by <i>Taq</i> polymerase
2 cycles	20 sec	94°C	Denaturation of double-stranded DNA template
	30 sec	59°C	Annealing of primers
	30 sec	72°C	Extension of PCR products by <i>Taq</i> polymerase
40 cycles	20 sec	94°C	Denaturation of double-stranded DNA template
	30 sec	57°C	Annealing of primers
	30 sec	72°C	Extension of PCR products by <i>Taq</i> polymerase
1 cycle	7 min	72°C	Final extension