TABLE S1: Strains used in this study

Species	**Strain designation**	**Country of origin**	**Year of isolation**	**Host species**	**Reference**	**Provider of strain or DNA for this study**
Mycoplasma capricolum subsp. *capripneumoniae*	ILRI181	Kenya	2012	Goat	(1)	Anne Liljander
Mccp	GL97P	Tunisia	1980	Goat	(2)	Martin Heller
Mccp	87F05	Turkey	2005	Goat	(2)	Martin Heller
Mccp	F38	Kenya	1976	Goat	(1, 3)	Martin Heller
Mccp	95043	Niger	1995	Goat	(4)	Joachim Frey
Mccp	91106/550/1	Dubai	1991	Goat	(4)	Joachim Frey
Mccp	M85/98	Tanzania	1998	Goat	(5)	Joachim Frey
Mccp	Gabés	Tunisia	1980	Goat	(6)	Joachim Frey
Mccp	M79/93	Uganda	1993	Goat	(7)	Joachim Frey
Mccp	4/2LC	Oman	1988	Goat	(8)	Joachim Frey
Mccp	9231-Abomaso	Ethiopia	1982	Goat	(9)	Joachim Frey

TABLE S1: Strains used in this study

Mccp	8789	Chad	1987	Goat	(10)	Joachim Frey
Mccp/ M. leachii mixed infection	D1800/04-2	Dubai	2004	Gazelle	This study	Martin Heller
Mccp/ M. ovipneumoniae mixed infection	3535	Qatar	2005	Mouflon	This study	Martin Heller
Mycoplasma capricolum subsp. *capricolum*	California kid [ATCC27343]	USA	1955	Goat	(11)	Martin Heller
Mcc	C47	Germany	<1992	Sheep	(2)	Martin Heller
Mcc	7714	France	1967	Goat	(12)	Martin Heller
Mcc	4146	France	1997	Goat	(13)	Martin Heller
Mcc	14DD0024	Germany	2015	Human	This study	Martin Heller
Mcc	6443-90	France	1990	Goat	(14)	Martin Heller
Mcc	8086-1	France	1980	Goat	(14)	Martin Heller
Mycoplasma mycoides subsp. *capri*	153/93	Canary Islands	1993	Goat	(15)	Martin Heller
Mmc	95010-C1	France	1995	Goat	(16, 17)	Martin Heller

TABLE S1: Strains used in this study

Mmc	Wi18079	Germany	2009	Goat	(2)	Martin Heller
Mmc	D2482	Switzerland	1991	Goat	(18)	Martin Heller
Mmc	Y-goat	Australia	1956	Goat	(19)	Martin Heller
Mmc	CapriL	France	1975	Goat	(18)	Martin Heller
Mmc	PG3	Turkey	1950	Goat	(20)	Martin Heller
Mmc	My-325	Croatia	1986	Goat	(2)	Martin Heller
Mmc	G1313.94	Germany	1994	Barbary sheep	(2)	Martin Heller
Mmc	G1255.94	Germany	1994	Barbary sheep	(2)	Martin Heller
Mmc	7302	Portugal	<1994	Goat	(21)	Martin Heller
Mmc	7730	France	1994	Goat	(22)	Martin Heller
Mmc	G1283.94	Germany	1994	Barbary Sheep	(2)	Martin Heller
Mmc	80/93	Spain	1994	Goat	(2)	Martin Heller
Mmc	GM12	USA	1979	Goat	(23)	Joerg Jores

TABLE S1: Strains used in this study

Mmc	Kombolcha	Ethiopia	1975	Goat	(17)	Martin Heller
Mmc	9096-C9415	Nigeria	unknown	Goat	(24)	Joachim Frey
Mycoplasma mycoides subsp. *mycoides*	L2	Italy	1993	Cattle	(25)	Martin Heller
Mmm	PG1	Africa	1931	Cattle	(26)	Martin Heller
Mmm	TAN 8	Tanzania	1996	Cattle	(27)	Martin Heller
Mmm	Matapi	Namibia	2004	Cattle	(28)	Martin Heller
Mmm	PO2	France	1980	Cattle	(25)	Martin Heller
Mmm	Mandigwan	Namibia	2001	Cattle	(2)	Martin Heller
Mmm	Fatick	Senegal	1968	Cattle	(25)	Martin Heller
Mmm	C11	Chad	1962	Cattle	(25)	Martin Heller
Mmm	B66	Kenya	2000	Cattle	(29)	Joerg Jores
Mmm	Afadé	Cameroon	1968	Cattle	(25)	Joerg Jores
Mmm	Gladysdale	Australia	1953	Cattle	(30)	Martin Heller
Mycoplasma serogroup	B144P	USA	1956	Cattle	(31)	Joachim Frey

TABLE S1: Strains used in this study

L						
M. leachii	FRD424	India	1993	Goat	(18)	Martin Heller
M. leachii	PAD3186	India	1993	Goat	(18)	Joachim Frey
M. leachii	PG50^{T}	Australia	1963	Cattle	(14, 32)	Martin Heller
M. leachii	CP291	Portugal	1987	Goat	(33)	Joachim Frey
Mycoplasma bovis	Donetta PG45	USA	1962	Cattle	(34, 35)	Martin Heller
M. bovis	DL589/78	Germany	1978	Calf	(36)	Martin Heller
M. bovis	DL997/79	Germany	1979	Calf	(36)	Martin Heller
M. bovis	DL778/80	Germany	1980	Cattle	This study	Martin Heller
M. bovis	DL097/81	Germany	1981	Calf	(36)	Martin Heller
M. bovis	DL981/84	Germany	1984	Cattle	This study	Martin Heller
M. bovis	DL018/91	Germany	1991	Cattle	(36)	Martin Heller
M. bovis	DL012/92	Germany	1992	Cattle	This study	Martin Heller
M. bovis	11DD0669	Germany	2011	Cattle	This study	Martin Heller

TABLE S1: Strains used in this study

M. bovis	12DD0690	Germany	2012	Cattle	This study	Martin Heller
M. bovis	12DD0691	Germany	2012	Cattle	This study	Martin Heller
M. feriruminatoris	G5847^T	Germany	1993	Alpine Ibex	(37, 38)	Martin Heller
M. feriruminatoris	8756-C13	USA	<1987	Rocky Mountain Goat	(17, 38)	Martin Heller
M. dispar	462/2^T	UK	<1970	Cattle	(39)	Martin Heller
M. buteonis	407/97	Israel	2011	Buzzard	This study	Martin Heller
M. gallisepticum	PG31^T	UK	1977	Poultry	(40)	Martin Heller
M. bovirhinis	PG43^T	UK	1967	Cattle	(41)	Martin Heller
M. bovoculi	M165/69	UK	1972	Cattle	(42)	Martin Heller
M. ovipneumoniae	Y98^T	Australia	<1971	Sheep	(43)	Martin Heller
M. putrefaciens	KS1^T	USA	1955	Goat	(20, 44)	Martin Heller
M. bovigenitalium	PG11^T	UK	1947	Cattle	(45)	Martin Heller
M. californicum	ST-6^T	USA	1981	Cattle	(46)	Martin Heller

TABLE S1: Strains used in this study

M. arginini	G230^T	USA	1968	Mouse	(47)	Martin Heller
M. canadense	275C^T	Canada	1974	Cattle	(48)	Martin Heller
M. verecundum	107	UK	1970	Cattle	(49)	Martin Heller
M. alkalescens	PG51^T	Australia	1961	Cattle	(50)	Martin Heller
M. canis	PG14^T	UK	1951	Dog	(51)	Martin Heller
M. pneumoniae	FH^T	UK	1974	Human	(52)	Martin Heller
Acholeplasma axanthum	S-743^T	UK	1965	Murine tissue culture	(53)	Martin Heller
Acholeplasma laidlawii	PG8^T	UK	1967	Unknown	(54, 55)	Martin Heller
Pastaurella multocida	ATCC 43137^T	Canada	1962	Pig	(56)	Martin Heller

^{T}Type strain

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TABLE S1: Strains used in this study

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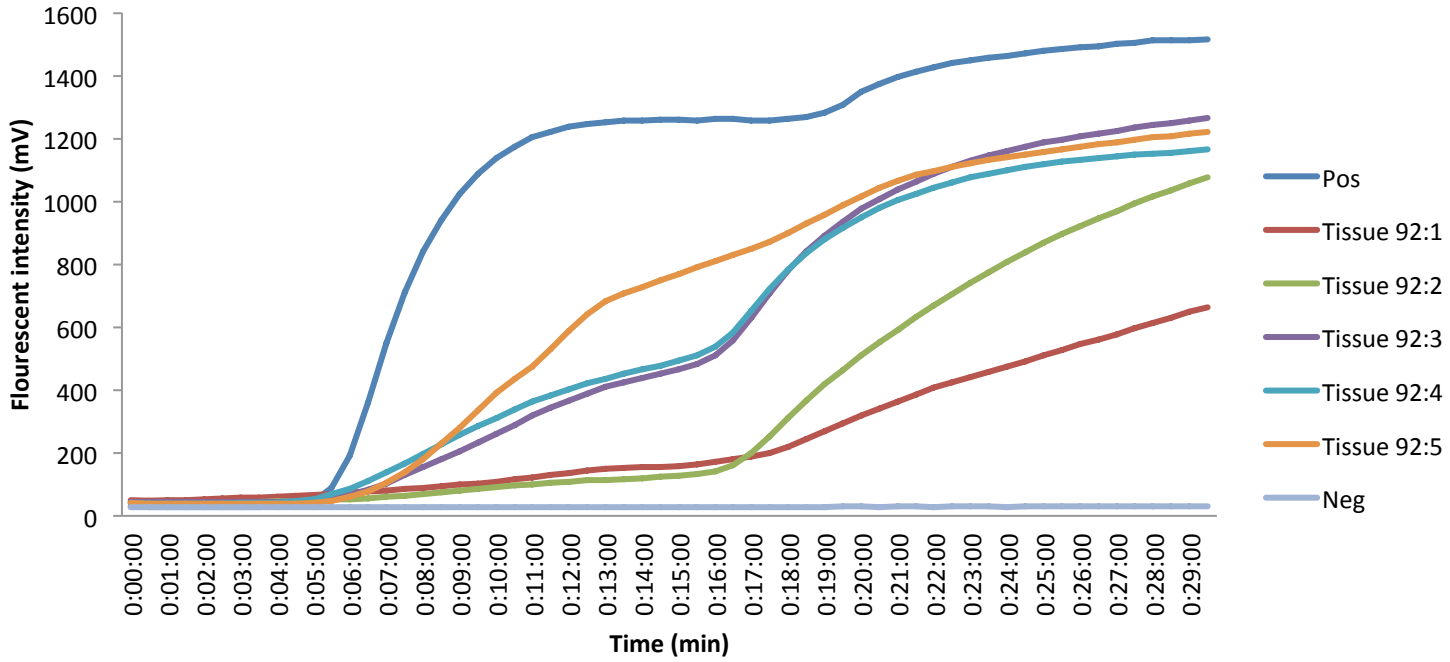

FIGURE S1: Graph depicting the amplification from a tissue sample (Goat 92). Tissue samples (n=5) were homogenized in 0.2M KOH. One micro-liter template was used in the RPA reaction. Positive control; *Mccp* DNA corresponding to 10^7 copies, negative control; 0.2M KOH

FIGURE S2: P icture depicting the equipment used to run the recombinase polymerase amplification powered by a car battery. A-computer, B-ESEQuant Tube Scanner (Qiagen, Germany), C-adaptor to connect the tube scanner and the computer to the cigarette lighter receptacle in the car.

DATASET S1 Results of the bioinformatics analysis to test the specificity of the RPA primers and probe against 14 bacterial genomes of ruminant path
Parameters were set to check for both the strand and the complementary strand on a circular molecule allowing one, five and ten mismatches (fuzzr

	Mccp **ILRI181**	***Mccp*** **F38**	***Mcc*** **ATCC 27343**	***Mmm*** **PG1**	***Mmc*** **GM12**	***M.bovis*** **PG45**
up to 1 mismatch						
F-primer	**745351 745386**	**745144 745179**	no match	no match	no match	no match
R-primer	**745561 745595**	**745354 745388**	no match	no match	no match	no match
Probe	**745404 745454**	**745197 745247**	no match	no match	no match	no match
up to 5 mismatches						
F-primer	**745351 745386**	**745144 745179**	no match	no match	no match	no match
R-primer	**745561 745595**	**745354 745388**	no match	no match	no match	no match
Probe	**745404 745454**	**745197 745247**	no match	no match	no match	no match
up to 10 mismatches						
F-primer	**745351 745386**	**745144 745179**	no match	no match	no match	no match
R-primer	**many matches**	**many matches**	**many matches**	**many matches**	**many matches**	**many matches**
Probe	**745404 745454**	**745197 745247**	no match	no match	no match	no match

ıogens The *in silico* specificity of the primers and probe, investigated using the pattern searching tool “fuzznuc” from the EMBOSS package agair
ıuc -complement -scircular -pmismatch 1, 5 or 10)

A.laidlawii **PG8A**	***P.multocida*** **PM70**	***M.haemolytica*** **S185**	***M.leachii*** **PG50**	***M.californicum*** **ST6**	***M.putrefaciens*** **KS1**	***M.bovigenitalium*** **51080**
no match	no match	no match	no match	no match	no match	no match
no match	no match	no match	no match	no match	no match	no match
no match	no match	no match	no match	no match	no match	no match
no match	no match	no match	no match	no match	no match	no match
no match	no match	no match	no match	no match	no match	no match
no match	no match	no match	no match	no match	no match	no match
no match	**1125582 1125617**	no match	no match	no match	no match	no match
many matches	no match	**1224217 1224251**	**many matches**	**342412 342446**	**many matches**	**many matches**
no match	no match	no match	no match	no match	no match	no match

ıst selected bacterial genomes.

M.arginini 7264	*M.alkalescens* 14918	*M.canis* UF31
no match	no match	no match
no match	no match	no match
no match	no match	no match
no match	no match	no match
no match	no match	no match
no match	no match	no match
no match	no match	no match
58971 59005	**many matches**	**many matches**
no match	no match	no match

DATASET S2 Results of RPA runs on archived negative clinical control samples
Cultures to confirm the precence of *Mycoplasma mycoides* subsp. *capri (Mmc)* and Mycoplasma mycoides subsp. mycoides (Mmm) has been performed previosley as described in material and methods

n.a., not applicable

	Species	Member of the 'Mycoplasma mycoides cluster' cultivated	Pleural fluid RPA	Lung tissue RPA
Sample ID				
CL004	Goat	none	n.a.	neg.
CK032	Goat	*Mmc*	neg.	neg.
CK033	Goat	*Mmc*	n.a.	neg.
CK034	Goat	*Mmc*	n.a.	neg.
CK035	Goat	none	n.a.	neg.
CK040	Goat	*Mmc*	n.a.	neg.
CK041	Goat	*Mmc*	n.a.	neg.
CK043	Goat	*Mmc*	n.a.	neg.
CK046	Goat	*Mmc*	n.a.	neg.
CK047	Goat	none	n.a.	neg.
CK048	Goat	*Mmc*	n.a.	neg.
CK049	Goat	none	n.a.	neg.
CK051	Goat	*Mmc*	n.a.	neg.
CL001	Goat	none	n.a.	neg.
CL002	Goat	*Mmc*	n.a.	neg.
CL003	Goat	none	n.a.	neg.
BD099	Cattle	*Mmm*	neg.	n.a.
BD115	Cattle	*Mmm*	neg.	n.a.