

Pathogen_species	Sampling_country	Tick_species	References
<i>Anaplasma bovis</i>	 Kenya	<i>Amblyomma gemma</i>	
		<i>Amblyomma variegatum</i>	[65]
		<i>Hyalomma rufipes</i>	
		<i>Hyalomma truncatum</i>	
		<i>Rhipicephalus appendiculatus</i>	[139]
		<i>Rhipicephalus evertsi</i>	
		<i>Rhipicephalus praetextatus</i>	[65]
		<i>Rhipicephalus pulchellus</i>	
		<i>Rhipicephalus decoloratus</i>	[53]
<i>Anaplasma centrale</i>	 South Africa	<i>Rhipicephalus evertsi</i>	
		<i>Rhipicephalus evertsi</i>	[71]
		<i>Hyalomma dromedarii</i>	[148]
<i>Anaplasma marginale</i>	 Ethiopia	<i>Amblyomma lepidum</i>	
		<i>Amblyomma variegatum</i>	[105]
	 Ivory Coast	<i>Amblyomma variegatum</i>	[55]
	 South Africa	<i>Rhipicephalus gertrudae</i>	[53]
	 Uganda	<i>Rhipicephalus pulchellus</i>	[54]
	 Algeria	<i>Rhipicephalus annulatus</i>	[89]
	 Benin	<i>Amblyomma variegatum</i>	[183]
	 Burkina Faso	<i>Rhipicephalus decoloratus</i>	[56]
	 Egypt	<i>Hyalomma excavatum</i>	[142] [74]

		[142]
	<i>Rhipicephalus annulatus</i>	[141]
		[74]
	<i>Rhipicephalus sanguineus</i>	[145]
	<i>Amblyomma cohaerens</i>	[116]
 Ethiopia	<i>Amblyomma lepidum</i>	[105]
	<i>Amblyomma variegatum</i>	
 Guinea	<i>Rhipicephalus geigyi</i>	[121]
	<i>Rhipicephalus microplus</i>	
 Ivory Coast	<i>Rhipicephalus microplus</i>	[55]
 Kenya	<i>Rhipicephalus decoloratus</i>	[59]
 Madagascar	<i>Amblyomma variegatum</i>	[132]
	<i>Rhipicephalus microplus</i>	
 South Africa	<i>Rhipicephalus decoloratus</i>	[53]
		[115]
	<i>Rhipicephalus evertsii</i>	[53]
	<i>Rhipicephalus gertrudae</i>	
	<i>Amblyomma gemma</i>	
	<i>Rhipicephalus appendiculatus</i>	
 United Republic of Tanzania	<i>Rhipicephalus compositus</i>	
	<i>Rhipicephalus decoloratus</i>	[114]
	<i>Rhipicephalus praetextatus</i>	
	<i>Rhipicephalus pulchellus</i>	
Zambia	<i>Argas walkerae</i>	[147]
Anaplasma ovis	<i>Rhipicephalus bursa</i>	[110]

	Algeria	<i>Rhipicephalus turanicus</i>	
	Ethiopia	<i>Rhipicephalus decoloratus</i>	[105]
		<i>Rhipicephalus evertsi</i>	
		<i>Amblyomma gemma</i>	
		<i>Amblyomma variegatum</i>	[65]
		<i>Rhipicephalus appendiculatus</i>	
	Kenya	<i>Rhipicephalus appendiculatus</i>	[139]
		<i>Rhipicephalus decoloratus</i>	[59]
		<i>Rhipicephalus evertsi</i>	
		<i>Rhipicephalus evertsi</i>	[139]
		<i>Rhipicephalus pulchellus</i>	[65]
	Mozambique	<i>Rhipicephalus microplus</i>	[103]
	South Africa	<i>Amblyomma hebraeum</i>	[71]
		<i>Rhipicephalus evertsi</i>	[53]
	Tunisia	<i>Rhipicephalus sanguineus</i>	[111]
		<i>Rhipicephalus turanicus</i>	
	Algeria	<i>Argas persicus</i>	[89]
	Egypt	<i>Rhipicephalus sanguineus</i>	[145]
		<i>Amblyomma cohaerens</i>	[116]
	Ethiopia	<i>Amblyomma lepidum</i>	[105]
		<i>Amblyomma variegatum</i>	
	Kenya	<i>Rhipicephalus maculatus</i>	[127]
	South Africa	<i>Amblyomma hebraeum</i>	[124]
		<i>Haemaphysalis elliptica</i>	[125]

Anaplasma phagocytophilum

	<i>Rhipicephalus decoloratus</i>	[124]
	<i>Rhipicephalus evertsi</i>	
	<i>Rhipicephalus sanguineus</i>	[125]
	<i>Hyalomma detritum</i>	[104]
 Tunisia	<i>Hyalomma marginatum</i>	[123]
	<i>Ixodes ricinus</i>	[104]
 Zambia	<i>Ornithodoros moubata</i>	[147]
 Democratic Republic of the Congo	<i>Rhipicephalus sanguineus</i>	[133]
	<i>Hyalomma excavatum</i>	[142]
 Egypt	<i>Rhipicephalus annulatus</i>	
	<i>Rhipicephalus annulatus</i>	[141]
	<i>Rhipicephalus sanguineus</i>	[145]
 Ethiopia	<i>Rhipicephalus decoloratus</i>	[76]
 Guinea	<i>Rhipicephalus microplus</i>	[121]
<i>Anaplasma platys</i>	<i>Rhipicephalus appendiculatus</i>	[59]
	<i>Rhipicephalus camicasi</i>	[122]
	<i>Rhipicephalus decoloratus</i>	[59]
 Kenya	<i>Rhipicephalus evertsi</i>	
	<i>Rhipicephalus pravus</i>	[65]
	<i>Rhipicephalus pulchellus</i>	
N/A	<i>Amblyomma variegatum</i>	[76]
	<i>Rhipicephalus sanguineus</i>	[122]
 South Africa	<i>Rhipicephalus evertsi</i>	[53]

		<i>Hyalomma dromedarii</i>	[134]
	Tunisia	<i>Rhipicephalus sanguineus</i>	[104]
		<i>Amblyomma variegatum</i>	
	Ivory Coast	<i>Hyalomma truncatum</i>	[55]
		<i>Rhipicephalus microplus</i>	
<i>Anaplasma spp.</i>		<i>Hyalomma dromedarii</i>	
	Tunisia	<i>Hyalomma excavatum</i>	[148]
		<i>Amblyomma gemma</i>	[117]
<i>Anaplasma spp. (Omatjenne)</i>	Ethiopia	<i>Amblyomma lepidum</i>	
		<i>Amblyomma variegatum</i>	[105]
<i>Candidatus Anaplasma ivorensis</i>	Ivory Coast	<i>Amblyomma variegatum</i>	[55]
	Egypt	<i>Rhipicephalus annulatus</i>	[141]
		<i>Amblyomma variegatum</i>	
<i>Candidatus Ehrlichia rustica</i>		<i>Hyalomma truncatum</i>	
	Ivory Coast	<i>Rhipicephalus microplus</i>	[55]
		<i>Amblyomma variegatum</i>	
<i>Candidatus Ehrlichia urmitei</i>		<i>Hyalomma truncatum</i>	

Rhipicephalus microplus

<i>Candidatus Rickettsia barbariae</i>	 Algeria	<i>Hyalomma excavatum</i>	[67]
		<i>Rhipicephalus bursa</i>	
	 Swaziland	<i>Rhipicephalus simus</i>	[117]
<i>Candidatus Rickettsia kastelani</i>	 Morocco	<i>Haemaphysalis punctata</i>	[94]
		<i>Haemaphysalis sulcata</i>	
		<i>Haemaphysalis erinacei</i>	[143]
		<i>Hyalomma excavatum</i>	[67]
	 Algeria	<i>Ixodes vespertilionis</i>	[73]
			[67]
		<i>Rhipicephalus bursa</i>	
			[110]
		<i>Rhipicephalus sanguineus</i>	[143]
		<i>Argas persicus</i>	
<i>Coxiella burnetii</i>	 Egypt	<i>Hyalomma dromedarii</i>	[74]
		<i>Hyalomma excavatum</i>	
		<i>Rhipicephalus sanguineus</i>	
			[62]
		<i>Amblyomma cohaerens</i>	[178]
	 Ethiopia		[182]
		<i>Amblyomma gemma</i>	[178]
		<i>Amblyomma variegatum</i>	[62]
			[178]

		[182]
	<i>Hyalomma rufipes</i>	[178]
	<i>Rhipicephalus decoloratus</i>	[62]
	<i>Rhipicephalus decoloratus</i>	
	<i>Rhipicephalus praetextatus</i>	[178]
	<i>Rhipicephalus pulchellus</i>	
	<i>Amblyomma variegatum</i>	
	<i>Hyalomma rufipes</i>	
 Ghana	<i>Hyalomma truncatum</i>	[175]
	<i>Rhipicephalus sanguineus</i>	
	<i>Rhipicephalus spp.</i>	
 Ivory Coast	<i>Amblyomma variegatum</i>	[55]
	<i>Amblyomma gemma</i>	[177]
	<i>Amblyomma variegatum</i>	
	<i>Haemaphysalis leachi</i>	[176]
	<i>Rhipicephalus appendiculatus</i>	
		[177]
 Kenya		[181]
	<i>Rhipicephalus decoloratus</i>	[176]
		[177]
	<i>Rhipicephalus evertsi</i>	[181]
		[177]
	<i>Rhipicephalus pulchellus</i>	[181]
		[177]
	<i>Rhipicephalus sanguineus</i>	[176]
N/A	<i>Rhipicephalus pulchellus</i>	[76]

 Nigeria	<i>Hyalomma dromedarii</i>	[168]
	<i>Hyalomma truncatum</i>	
	<i>Amblyomma variegatum</i>	
	<i>Hyalomma rufipes</i>	
	<i>Hyalomma truncatum</i>	
 Senegal	<i>Ornithodoros sonrai</i>	[180]
	<i>Rhipicephalus annulatus</i>	
	<i>Rhipicephalus decoloratus</i>	
	<i>Rhipicephalus evertsi</i>	
	<i>Rhipicephalus guilhoeni</i>	
		[71]
	<i>Amblyomma hebraeum</i>	
 South Africa	<i>Haemaphysalis elliptica</i>	[125]
	<i>Rhipicephalus evertsi</i>	[115]
	<i>Rhipicephalus sanguineus</i>	[125]
 Tunisia	<i>Hyalomma dromedarii</i>	[134]
	<i>Hyalomma impeltatum</i>	
	<i>Amblyomma variegatum</i>	
	<i>Hyalomma truncatum</i>	
Angola	<i>Rhipicephalus decoloratus</i>	[146]
	<i>Rhipicephalus duttoni</i>	
	<i>Rhipicephalus evertsi mimeticus</i>	
Coxiella spp.		
 Egypt	<i>Rhipicephalus sanguineus</i>	[76]
	<i>Amblyomma cohaerens</i>	
	<i>Amblyomma gemma</i>	[179]

	<i>Amblyomma lepidum</i>	
	<i>Amblyomma personatum</i>	
	<i>Amblyomma tholloni</i>	
	<i>Haemaphysalis spp.</i>	
	<i>Rhipicephalus appendiculatus</i>	
	<i>Rhipicephalus carnivoralis</i>	[76]
	<i>Rhipicephalus compositus</i>	
	<i>Rhipicephalus maculatus</i>	
	<i>Rhipicephalus pravus</i>	
	<i>Rhipicephalus spp.</i>	
	<i>Amblyomma gemma</i>	
	<i>Amblyomma variegatum</i>	
N/A	<i>Hyalomma truncatum</i>	[76]
	<i>Rhipicephalus evertsi</i>	
	<i>Rhipicephalus praetextatus</i>	
	<i>Rhipicephalus pulchellus</i>	
 Namibia	<i>Argas transgariepinus</i>	[169]
 Nigeria	<i>Hyalomma dromedarii</i>	[168]
	<i>Hyalomma truncatum</i>	
Coxiella-like endosymbionts	<i>Dermacentor marginatus</i>	
 Algeria	<i>Haemaphysalis sulcata</i>	
	<i>Hyalomma detritum</i>	
	<i>Hyalomma excavatum</i>	[26]
	<i>Hyalomma lusitanicum</i>	
	<i>Hyalomma marginatum</i>	

 Egypt	<i>Rhipicephalus sanguineus</i>	[76]
	<i>Amblyomma eburneum</i>	[127]
	<i>Amblyomma personatum</i>	
	<i>Amblyomma tholloni</i>	
	<i>Haemaphysalis spp.</i>	
 Kenya	<i>Rhipicephalus appendiculatus</i>	
	<i>Rhipicephalus carnivoralis</i>	
	<i>Rhipicephalus compositus</i>	
	<i>Rhipicephalus maculatus</i>	[76]
	<i>Rhipicephalus pravus</i>	
	<i>Rhipicephalus spp.</i>	
	<i>Amblyomma gemma</i>	
	<i>Amblyomma variegatum</i>	
N/A	<i>Hyalomma truncatum</i>	
	<i>Rhipicephalus evertsi</i>	
	<i>Rhipicephalus praetextatus</i>	
 Sao Tome and Principe	<i>Amblyomma astrion</i>	[157]
	<i>Amblyomma variegatum</i>	
		[82]
 Algeria		
<i>Ehrlichia canis</i>	<i>Rhipicephalus sanguineus</i>	[89]
 Burkina Faso		[137]

[130]



Cameroon

[129]



Egypt

[145]



Ghana

[137]



Ivory Coast

[135]

Rhipicephalus evertsii



Kenya

Rhipicephalus pravus

[65]

Rhipicephalus pulchellus



Mali

Rhipicephalus muhsamae

[77]



Niger

Hyalomma truncatum

	<i>Rhipicephalus evertsi</i>	[71]
 South Africa		
	<i>Rhipicephalus sanguineus</i>	[125]
		[130]
 Cameroon	<i>Rhipicephalus sanguineus</i>	
<i>Ehrlichia chaffeensis</i>		[129]
 Kenya	<i>Amblyomma spp.</i>	[127]
<i>Ehrlichia chaffeensis-like</i>	 Egypt	<i>Hyalomma excavatum</i>
		[142]
<i>Ehrlichia ewingii</i>	 Cameroon	<i>Rhipicephalus sanguineus</i>
		[130]
<i>Ehrlichia minasensis</i>	 Egypt	<i>Hyalomma excavatum</i>
		[142]
<i>Rhipicephalus annulatus</i>		
 Swaziland	<i>Rhipicephalus muehlensi</i>	
		[117]
<i>Rhipicephalus simus</i>		



Haemaphysalis sulcata

[89]

Rhipicephalus appendiculatus

Ehrlichia muris

Rhipicephalus evertsi

[140]

Rhipicephalus sanguineus



Hyalomma rufipes

Rhipicephalus decoloratus

Ehrlichia ovina

[53]

Rhipicephalus evertsi

Rhipicephalus gertrudae



Hyalomma aegyptium

[144]

Ehrlichia ruminantium



Amblyomma variegatum

[183]

[56]

Rhipicephalus microplus

[50]

[106]

Amblyomma variegatum



Burkina Faso

[56]

Rhipicephalus microplus

[50]



Cameroon

Amblyomma variegatum

[51]

[116]

Amblyomma cohaerens

[138]



Ethiopia

[76]

Amblyomma lepidum

[105]

[116]

Amblyomma variegatum

[105]

Rhipicephalus decoloratus

[105]

Gambia

Amblyomma variegatum

[113]

  Ivory Coast

Amblyomma variegatum

[55]

Rhipicephalus microplus

[50]

Amblyomma falsomarmoreum

 Kenya

Amblyomma gemma

[65]

Amblyomma nuttalli

Amblyomma sparsum

Amblyomma variegatum

Hyalomma impeltatum

[76]

Rhipicephalus evertsii

[65]

N/A

Amblyomma variegatum

[76]

[109]

[53]

[112]



South Africa

Amblyomma hebraeum

[115]

[63]

[91]

[131]

Rhipicephalus decoloratus

[115]

Amblyomma lepidum



Sudan

[126]

Amblyomma variegatum



Swaziland

Amblyomma hebraeum

[117]

Amblyomma gemma



Uganda

Amblyomma lepidum

[54]

Amblyomma variegatum

[128]

Hyalomma truncatum

[54]

[120]



Zimbabwe

Amblyomma hebraeum

[131]

Angola

Rhipicephalus decoloratus

[146]

[130]



Cameroon

Rhipicephalus sanguineus

[129]

Rhipicephalus annulatus

Ehrlichia spp.

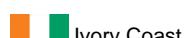


Guinea

Rhipicephalus geigyi

[121]

Rhipicephalus microplus



Ivory Coast

Amblyomma variegatum

[55]

Hyalomma truncatum

Rhipicephalus microplus

 South Africa

Amblyomma and Rhipicephalus spp.

[107]

Amblyomma gemma

 United Republic of Tanzania

Amblyomma lepidum

[117]

Amblyomma variegatum

Hyalomma rufipes

Ehrlichia spp. (EU191229.1)

 South Africa

Rhipicephalus decoloratus

[53]

Rhipicephalus evertsi

Argas persicus

[89]

Ehrlichia/Anaplasma spp.

 Algeria

Haemaphysalis erinacei

[143]

Hyalomma aegyptium

[144]

Hyalomma detritum

[89]

Ixodes ricinus

Rhipicephalus annulatus

Rhipicephalus bursa

[143]

Rhipicephalus sanguineus

[89]



Rhipicephalus annulatus

[141]

Amblyomma lepidum

[76]



Rhipicephalus decoloratus

[105]

Rhipicephalus evertsii

Ixodes aulacodi

[102]



Hyalomma impeltatum



[76]

Rhipicephalus pravus



Ixodes ricinus

[104]



Rhipicephalus microplus

[103]

N/A

Amblyomma variegatum

[76]

[53]

Amblyomma hebraeum



[91]

Haemaphysalis elliptica

Hyalomma rufipes

[53]

Rhipicephalus decoloratus

Rhipicephalus evertsi

Rhipicephalus microplus

Rhipicephalus sanguineus [91]

Rhipicephalus warburtoni [53]

Hyalomma detritum [104]

Hyalomma dromedarii [148]

 Tunisia

Hyalomma excavatum

Ixodes ricinus [104]

Rhipicephalus sanguineus

Haemaphysalis leachi [93]

	Uganda		
		<i>Rhipicephalus praetextatus</i>	
	Zambia		
		<i>Argas walkerae</i>	
		<i>Ornithodoros faini</i>	[147]
		<i>Ornithodoros moubata</i>	
<i>Neoehrlichia mikiurensis</i>		<i>Amblyomma cohaerens</i>	[138]
<i>Neoehrlichia spp.</i>		<i>Rhipicephalus sanguineus</i>	[91]
<i>Occidentia massiliensis</i>		<i>Ornithodoros sonrai</i>	[174]
<i>Panola Mountain Ehrlichia (PME)</i>		<i>Amblyomma variegatum</i>	[119]
		<i>Hyalomma aegyptium</i>	[144]
			[153]
		<i>Hyalomma detritum</i>	[154]
		<i>Hyalomma dromedarii</i>	[70]
			[67]
<i>Rickettsia aeschlimannii</i>	Algeria	<i>Hyalomma excavatum</i>	[73]
			[67]
		<i>Hyalomma marginatum</i>	[154]
		<i>Hyalomma scupense</i>	[73]
	Angola	<i>Hyalomma truncatum</i>	[146]
		<i>Hyalomma rufipes</i>	[81]
		<i>Hyalomma truncatum</i>	

 Chad	<i>Hyalomma rufipes</i>	[75]
 Djibouti		
	<i>Hyalomma dromedarii</i>	
 Egypt	<i>Hyalomma impeltatum</i>	[74]
	<i>Hyalomma rufipes</i>	
	<i>Hyalomma impeltatum</i>	
 Ethiopia	<i>Hyalomma rufipes</i>	[81]
	<i>Hyalomma truncatum</i>	
 Ivory Coast	<i>Hyalomma marginatum</i>	[55]
	<i>Hyalomma truncatum</i>	
	<i>Amblyomma variegatum</i>	[64]
	<i>Hyalomma impeltatum</i>	[76]
	<i>Hyalomma marginatum</i>	[64]
 Kenya	<i>Hyalomma rufipes</i>	[76]
		[65]
	<i>Hyalomma truncatum</i>	[64]
		[65]
	<i>Rhipicephalus pulchellus</i>	[64]
		[65]
 Mali	<i>Hyalomma rufipes</i>	[77]
 Morocco	<i>Hyalomma marginatum</i>	[151]
		[94]
 Niger	<i>Hyalomma rufipes</i>	[77]
	<i>Hyalomma impeltatum</i>	[72]

 Nigeria	<i>Hyalomma rufipes</i>	
	<i>Hyalomma impeltatum</i>	[78]
	<i>Hyalomma rufipes</i>	[163]
 Senegal	<i>Hyalomma truncatum</i>	[78]
	<i>Rhipicephalus evertsi</i>	[163]
	<i>Rhipicephalus evertsi</i>	[78]
	<i>Hyalomma rufipes</i>	
 South Africa	<i>Rhipicephalus appendiculatus</i>	[71]
	<i>Rhipicephalus evertsi</i>	
 Sudan	<i>Hyalomma rufipes</i>	[80]
	<i>Hyalomma dromedarii</i>	[69]
 Tunisia	<i>Hyalomma dromedarii</i>	[79]
	<i>Hyalomma impeltatum</i>	
	<i>Hyalomma aegyptium</i>	[144]
 Algeria	<i>Hyalomma aegyptium</i>	[89]
	<i>Hyalomma detritum</i>	
	<i>Hyalomma dromedarii</i>	[90]
<i>Rickettsia africae</i>		
Angola	<i>Amblyomma variegatum</i>	[150]
		[146]
	<i>Rhipicephalus decoloratus</i>	[146]
 Burkina Faso	<i>Amblyomma variegatum</i>	[81]
 Burundi	<i>Amblyomma variegatum</i>	[77]

	<i>Amblyomma variegatum</i>	
 Central African Republic	<i>Rhipicephalus compositus</i>	[60]
	<i>Rhipicephalus muhsamae</i>	
	<i>Amblyomma variegatum</i>	
 Comoros	<i>Rhipicephalus appendiculatus</i>	[66]
	<i>Rhipicephalus microplus</i>	
 Democratic Republic of the Congo	<i>Amblyomma compressum</i>	[163]
	<i>Amblyomma lepidum</i>	[75]
 Djibouti		[96]
	<i>Amblyomma variegatum</i>	[75]
	<i>Amblyomma cohaerens</i>	[62]
		[138]
	<i>Amblyomma gemma</i>	[81]
	<i>Amblyomma lepidum</i>	[62]
 Ethiopia	<i>Amblyomma variegatum</i>	[62]
		[138]
	<i>Rhipicephalus decoloratus</i>	
	<i>Rhipicephalus evertsi</i>	[105]
	<i>Amblyomma variegatum</i>	
	<i>Haemaphysalis paraleachi</i>	
 Guinea	<i>Hyalomma rufipes</i>	[163]
	<i>Rhipicephalus annulatus</i>	
	<i>Rhipicephalus decoloratus</i>	
	<i>Amblyomma variegatum</i>	[55]



Hyalomma impressum

Hyalomma marginatum

Hyalomma truncatum

Rhipicephalus microplus

[164]

Amblyomma eburneum

[127]

[59]

Amblyomma gemma

[64]

[65]

[139]

Amblyomma lepidum

[64]

[59]

[160]



Amblyomma variegatum

[92]

[65]

[139]

Hyalomma impeltatum

[76]

Hyalomma truncatum

[64]

[59]

Rhipicephalus appendiculatus

[160]

Rhipicephalus decoloratus

[59]

Rhipicephalus evertsii

[65]

Rhipicephalus pulchellus



Amblyomma compressum

[163]

Amblyomma variegatum

		<i>Rhipicephalus geigyi</i>
 Mali	<i>Amblyomma variegatum</i>	[77]
 Morocco	<i>Hyalomma aegyptium</i>	[167]
	<i>Amblyomma hebraeum</i>	[161]
 Mozambique	<i>Amblyomma variegatum</i>	[103]
N/A	<i>Amblyomma gemma</i>	[76]
	<i>Amblyomma variegatum</i>	
 Niger	<i>Amblyomma variegatum</i>	[77]
 Nigeria	<i>Amblyomma variegatum</i>	[159]
	<i>Amblyomma variegatum</i>	[78]
 Senegal	<i>Hyalomma rufipes</i>	
	<i>Rhipicephalus annulatus</i>	[163]
	<i>Rhipicephalus evertsi</i>	
		[61]
		[71]
	<i>Amblyomma hebraeum</i>	[63]
 South Africa		
		[91]
	<i>Haemaphysalis elliptica</i>	
	<i>Rhipicephalus appendiculatus</i>	[71]
	<i>Rhipicephalus evertsi</i>	
	<i>Amblyomma lepidum</i>	[77]
 Sudan	<i>Hyalomma dromedarii</i>	[80]

	 Swaziland	<i>Amblyomma hebraeum</i>	[117]
	 Tunisia	<i>Hyalomma dromedarii</i>	[79]
		<i>Hyalomma impeltatum</i>	
	 Uganda	<i>Amblyomma variegatum</i>	[159]
<i>Rickettsia africae São Tomé</i>	 Sao Tome and Principe		[157]
<i>Rickettsia akari</i>	 South Africa	<i>Rhipicephalus sanguineus</i>	[140]
		<i>Rhipicephalus spp.</i>	
	 Algeria	<i>Rhipicephalus sanguineus</i>	[82]
			[154]
	 Central African Republic	<i>Rhipicephalus muhsamae</i>	[60]
	 Kenya	<i>Rhipicephalus appendiculatus</i>	[64]
	 Morocco	<i>Rhipicephalus sanguineus</i>	[83]
<i>Rickettsia conorii</i>	 Nigeria		[84]
	 Senegal	<i>Rhipicephalus evertsi</i>	[163]
	 Swaziland	<i>Haemaphysalis elliptica</i>	[117]
	 Tunisia	<i>Rhipicephalus sanguineus</i>	[86]
			[87]
	 Uganda	<i>Haemaphysalis leachi</i>	[93]
		<i>Haemaphysalis punctaleachi</i>	[96]
<i>Rickettsia conorii</i> ssp. <i>caspia</i>	 Zambia	<i>Rhipicephalus sanguineus</i>	[155]
<i>Rickettsia helvetica</i>	 Algeria	<i>Ixodes ricinus</i>	[90]
	 Morocco		[94]

	 Tunisia	<i>Hyalomma impeltatum</i>	[79]
		<i>Ixodes ricinus</i>	[95]
<i>Rickettsia hoogstraalii</i>	 Namibia	<i>Argas transgariepinus</i>	[169]
	Zambia	<i>Argas walkerae</i>	[147]
<i>Rickettsia israelensis</i>	 Tunisia	<i>Rhipicephalus sanguineus</i>	[87]
<i>Rickettsia japonica</i>	 Sao Tome and Principe	<i>Amblyomma variegatum</i>	[157]
<i>Rickettsia lusitaniae</i>	Zambia	<i>Ornithodoros faini</i>	[147]
		<i>Ornithodoros porcinus</i>	[171]
		<i>Rhipicephalus bursa</i>	[73]
			[143]
	 Algeria		[82]
		<i>Rhipicephalus sanguineus</i>	[154]
			[85]
			[73]
	 Burkina Faso		[137]
<i>Rickettsia massiliae</i>	 Central African Republic	<i>Haemaphysalis leachi</i>	
		<i>Rhipicephalus lunulatus</i>	
		<i>Rhipicephalus muhsamae</i>	[60]
		<i>Rhipicephalus senegalensis</i>	
		<i>Rhipicephalus sulcatus</i>	
		<i>Haemaphysalis paraleachi</i>	[163]
	 Guinea		
	 Ivory Coast	<i>Rhipicephalus senegalensis</i>	
			[55]
	 Mali	<i>Rhipicephalus muhsamae</i>	[77]

	 Morocco	<i>Rhipicephalus sanguineus</i>	[83]
			[94]
	N/A	<i>Rhipicephalus praetextatus</i>	[76]
	 Nigeria	<i>Rhipicephalus turanicus</i>	[172]
	 Senegal	<i>Rhipicephalus guilhoni</i>	[163]
	 South Africa	<i>Amblyomma sylvaticum</i>	[61]
		<i>Rhipicephalus simus</i>	
	 Swaziland	<i>Haemaphysalis elliptica</i>	[117]
		<i>Rhipicephalus simus</i>	
	 Tunisia	<i>Rhipicephalus sanguineus</i>	[87]
	 Uganda	<i>Haemaphysalis leachii</i>	[93]
			[152]
	 Algeria	<i>Ixodes ricinus</i>	[89]
			[98]
<i>Rickettsia monacensis</i>			[90]
	 Morocco		[83]
			[94]
	 Tunisia	<i>Hyalomma impeltatum</i>	[79]
		<i>Ixodes ricinus</i>	[95]
	 Algeria	<i>Hyalomma aegyptium</i>	[167]
<i>Rickettsia mongolotimonae</i>	 Kenya	<i>Hyalomma unidentified</i>	[64]
	 Senegal	<i>Hyalomma truncatum</i>	[163]
<i>Rickettsia montanensis</i>	 Kenya	<i>Rhipicephalus appendiculatus</i>	[64]
<i>Rickettsia parkeri</i>		<i>Hyalomma truncatum</i>	

		<i>Rhipicephalus pulchellus</i>	
<i>Rickettsia raoultii</i>	 Liberia	<i>Ixodes muniensis</i>	[163]
	 Morocco	<i>Dermacentor marginatus</i>	[94]
	 Central African Republic	<i>Rhipicephalus compositus</i>	[60]
		<i>Rhipicephalus lunulatus</i>	
<i>Rickettsia rhipicephali</i>		<i>Amblyomma cohaerens</i>	[76]
	 Kenya	<i>Rhipicephalus evertsi</i>	[65]
		<i>Rhipicephalus pulchellus</i>	
			[90]
<i>Rickettsia slovaca</i>	 Algeria	<i>Dermacentor marginatus</i>	[73]
		<i>Haemaphysalis punctata</i>	
	 Morocco	<i>Dermacentor marginatus</i>	[94]
<i>Rickettsia sp. Ae-8</i>	 South Africa	<i>Amblyomma exornatum</i>	[173]
		<i>Carios capensis</i>	[13]
		<i>Dermacentor marginatus</i>	[90]
			[73]
		<i>Haemaphysalis erinacei</i>	[143]
			[85]
<i>Rickettsia spp.</i>	 Algeria	<i>Haemaphysalis punctata</i>	[73]
		<i>Haemaphysalis sulcata</i>	[89]
		<i>Hyalomma aegyptium</i>	[144]
			[167]
		<i>Hyalomma dromedarii</i>	[70]
			[90]

	<i>Hyalomma excavatum</i>	[73]
	<i>Hyalomma impeltatum</i>	[70]
	<i>Hyalomma rufipes</i>	
	<i>Hyalomma scupense</i>	[73]
	<i>Ixodes ricinus</i>	[90]
	<i>Ornithodoros erraticus</i>	[13]
	<i>Ornithodoros rupestris</i>	
	<i>Rhipicephalus bursa</i>	[73]
		[143]
	<i>Rhipicephalus sanguineus</i>	[89]
		[85]
		[73]
 Benin	<i>Amblyomma variegatum</i>	[108]
 Cameroon	<i>Hyalomma rufipes</i>	[170]
	<i>Hyalomma truncatum</i>	
	<i>Rhipicephalus lunulatus</i>	
	<i>Amblyomma tholloni</i>	[162]
	<i>Amblyomma variegatum</i>	
	<i>Haemaphysalis leachi</i>	
 Central African Republic	<i>Rhipicephalus compositus</i>	
	<i>Rhipicephalus lunulatus</i>	[60]
	<i>Rhipicephalus muhsamae</i>	
	<i>Rhipicephalus senegalensis</i>	
	<i>Rhipicephalus sulcatus</i>	

	Chad	<i>Hyalomma rufipes</i>	[75]
	Democratic Republic of the Congo	<i>Amblyomma compressum</i>	[163]
	Djibouti	<i>Amblyomma lepidum</i>	[75]
			[96]
		<i>Amblyomma variegatum</i>	
		<i>Hyalomma rufipes</i>	[75]
	Egypt	<i>Hyalomma dromedarii</i>	
		<i>Hyalomma impeltatum</i>	[149]
		<i>Hyalomma marginatum</i>	
		<i>Amblyomma cohaerens</i>	
		<i>Amblyomma lepidum</i>	
		<i>Amblyomma variegatum</i>	[62]
	Ethiopia	<i>Rhipicephalus decoloratus</i>	
			[105]
		<i>Rhipicephalus evertsi</i>	
	Gabon	<i>Amblyomma tholloni</i>	[162]
		<i>Amblyomma variegatum</i>	
		<i>Hyalomma rufipes</i>	
	Ghana	<i>Hyalomma truncatum</i>	
		<i>Rhipicephalus evertsi</i>	[175]
		<i>Rhipicephalus sanguineus</i>	
		<i>Rhipicephalus spp.</i>	
	Guinea	<i>Amblyomma variegatum</i>	
		<i>Haemaphysalis paraleachi</i>	[163]

	<i>Hyalomma rufipes</i>
	<i>Rhipicephalus annulatus</i>
	<i>Rhipicephalus decoloratus</i>
	<i>Rhipicephalus senegalensis</i>
	<i>Amblyomma variegatum</i>
	<i>Hyalomma impressum</i>
	<i>Hyalomma marginatum</i>
	[55]
	<i>Hyalomma truncatum</i>
	<i>Rhipicephalus microplus</i>
	<i>Rhipicephalus senegalensis</i>
	<i>Amblyomma cohaerens</i>
	[76]
	<i>Amblyomma variegatum</i>
	[160]
	<i>Haemaphysalis leachi</i>
	[92]
	<i>Hyalomma impeltatum</i>
	[76]
	<i>Hyalomma rufipes</i>
	[160]
	<i>Rhipicephalus appendiculatus</i>
	[92]
	<i>Rhipicephalus decoloratus</i>
	<i>Rhipicephalus maculatus</i>
	[164]
	<i>Rhipicephalus spp.</i>
	[92]
	<i>Amblyomma compressum</i>
	<i>Amblyomma variegatum</i>
	[163]
	<i>Ixodes muniensis</i>
	<i>Rhipicephalus geigyi</i>

 Ivory Coast

 Kenya

 Liberia

 Madagascar	<i>Amblyomma variegatum</i>	[158]
	<i>Dermacentor marginatus</i>	
	<i>Haemaphysalis punctata</i>	[94]
	<i>Haemaphysalis sulcata</i>	
 Morocco	<i>Hyalomma aegyptium</i>	[167]
	<i>Hyalomma marginatum</i>	
	<i>Ixodes ricinus</i>	[94]
	<i>Rhipicephalus sanguineus</i>	
	<i>Amblyomma hebraeum</i>	
 Mozambique		[161]
	<i>Amblyomma variegatum</i>	
		[103]
	<i>Amblyomma gemma</i>	
N/A	<i>Amblyomma variegatum</i>	[76]
	<i>Rhipicephalus praetextatus</i>	
 Namibia	<i>Argas transgariepinus</i>	[169]
	<i>Amblyomma variegatum</i>	[159]
	<i>Hyalomma dromedarii</i>	[72]
		[168]
	<i>Hyalomma impeltatum</i>	[72]
		[168]
	<i>Hyalomma rufipes</i>	[72]
		[168]
 Nigeria	<i>Hyalomma truncatum</i>	
	<i>Rhipicephalus sanguineus</i>	[84]

 Sao Tome and Principe	<i>Amblyomma astrion</i> <hr/> <i>Amblyomma variegatum</i> <hr/> <i>Hyalomma impeltatum</i> <hr/> <i>Hyalomma rufipes</i> <hr/>  Senegal	[157] <hr/> [78] <hr/> [163] <hr/> [78]
	<i>Hyalomma truncatum</i> <hr/> <i>Rhipicephalus annulatus</i> <hr/> <i>Rhipicephalus evertsi</i> <hr/> <i>Rhipicephalus guilhoni</i> <hr/> <i>Amblyomma hebraeum</i> <hr/> <i>Amblyomma sylvaticum</i> <hr/> <i>Haemaphysalis elliptica</i> <hr/> <i>Rhipicephalus decoloratus</i> <hr/> <i>Rhipicephalus evertsi</i> <hr/> <i>Rhipicephalus sanguineus</i> <hr/> <i>Rhipicephalus simus</i> <hr/>	[163] <hr/> [115] <hr/> [115] <hr/> [61] <hr/> [91] <hr/> [61] <hr/> [91] <hr/> [115] <hr/> [91] <hr/> [91] <hr/> [125] <hr/> [61] <hr/> [71] <hr/> [91]
 South Africa	<i>Amblyomma variegatum</i>	[166]
 Sudan		



Tunisia

Hyalomma dromedarii [69]

Hyalomma impeltatum [79]

Ixodes ricinus [95]

Rhipicephalus sanguineus [86]

[87]

Amblyomma variegatum [159]

[165]



Uganda

Haemaphysalis leachi [93]

Haemaphysalis punctaleachi [96]

Rhipicephalus praetextatus [93]

Amblyomma gemma

Amblyomma lepidum [117]

Amblyomma marmoreum

Amblyomma variegatum

Ornithodoros moubata [156]



United Republic of Tanzania

Rhipicephalus appendiculatus

Rhipicephalus evertsi

Rhipicephalus muhsamae [117]

Rhipicephalus pravus

Rhipicephalus pulchellus

Rhipicephalus simus

Zambia

Argas walkerae [147]

Ornithodoros faini

Amblyomma hebraeum [88]

		<i>Amblyomma rhinocerotis</i>	
		<i>Amblyomma sparsum</i>	
		<i>Amblyomma variegatum</i>	
 Zimbabwe		<i>Haemaphysalis leachi</i>	
		<i>Hyalomma marginatum</i>	
		<i>Hyalomma truncatum</i>	
		<i>Rhipicephalus simus</i>	
<i>Rickettsia spp. (Davousti)</i>	 Gabon	<i>Amblyomma tholloni</i>	[162]
<i>Rickettsia spp. (Uilenbergi)</i>	 Central African Republic		
<i>Rickettsiella spp.</i>	 Namibia	<i>Argas transgariepinus</i>	[169]
	 Algeria	<i>Ixodes ricinus</i>	[89]
		<i>Rhipicephalus sanguineus</i>	[82]
<i>SFG Rickettsia spp.</i>	 Benin	<i>Amblyomma variegatum</i>	[108]
	 Tunisia	<i>Rhipicephalus sanguineus</i>	[86]
