

Supplementary Table S1. Tick species distribution and prevalence of *Borrelia burgdorferi* (s.l.) and *Rickettsia* spp. among questing ticks collected in Tokachi district, eastern Hokkaido, Japan. (continued)

Month	Province	Species	Stage ^a	Total No. ^b	Tested ^c (No. pool)	<i>Borrelia burgdorferi</i> (s.l.) (%)			<i>Rickettsia</i> spp. (%)		
						<i>B. j.</i>	<i>B. g./B. b.</i>	<i>B. a.</i>	<i>R. h.</i>	" <i>Ca. R. t.</i> "	" <i>Ca. R. p.</i> "
Oct	Shikaoi	<i>I. persulcatus</i>	Male	1	0	–	–	–	–	–	–
			Nymph	1	0	–	–	–	–	–	–
		<i>H. megaspinoso</i>	Male	1	0	–	–	–	–	–	–
			Nymph	3	0	–	–	–	–	–	–
		<i>H. japonica</i>	Male	1	0	–	–	–	–	–	–
			Female	1	0	–	–	–	–	–	–
		Nymph	2	0	–	–	–	–	–	–	
Nov	Ashoro	<i>I. ovatus</i>	Female	3	3	1 (33)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
			Larva	6	1	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
		<i>I. persulcatus</i>	Nymph	2	0	–	–	–	–	–	–
			Larva	15	9 (2)	0 (0)	0 (0)	0 (0)	1 (50)	1 (50)	0 (0)
		<i>H. japonica</i>	Male	3	3	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
			Nymph	109	4	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
		<i>H. megaspinoso</i>	Nymph	10	1	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
			Larva	39	10 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)

^aDevelopmental stages of ticks collected.

^bTotal number of ticks collected.

^cNumber of ticks tested for microorganism detection.

Abbreviations: *B. a.*, *Borrelia afzelii*; *B. b.*, *Borrelia bavariensis*; *B. g.*, *Borrelia garinii*; *B. j.*, *Borrelia japonica*; "*Ca. R. p.*", "*Candidatus Rickettsia principis*"; "*Ca. R. t.*", "*Candidatus Rickettsia tarasevichiae*"; *R. h.*, *Rickettsia helvetica*; 0 (0), the tick samples tested were all negative for the microorganism. Hyphens indicate that no tick sample was tested.