

Supplemental Table 1. Multiplex assay sensitivity in detection of multiple agents

3 agents present		4 agents present		5 agents present	
Agent	Sensitivity (copies)	Agent	Sensitivity (copies)	Agent	Sensitivity (copies)
<i>A. phagocytophilum</i>	10	<i>A. phagocytophilum</i>	10	<i>A. phagocytophilum</i>	10
<i>B. microti</i>	10	<i>B. microti</i>	10	<i>B. microti</i>	10
<i>B. burgdorferi</i>	10	<i>B. burgdorferi</i>	10	<i>B. burgdorferi</i>	10
<i>B. miyamotoi</i>	10	<i>B. miyamotoi</i>	10	<i>B. miyamotoi</i>	10
Powassan virus	10	Powassan virus	10	Powassan virus	20

In assays with 3 and 4 standards, different combinations of agents were tested with equal sensitivity results.

Concentrations tested included 10, 20, 50, 100 and 1000 copies present at equal concentration for each agent.