

S3 Table. Example of a Site-Specific Partition of the Full Dataset for the Bayesian Analyses

Data from all 14 tested ticks sampled from site 602 ($i=2$) in 2006 are presented below.

Rows are sorted according to the observed presence/absence of infection (z_{ij}), observed success/failure of RLB test (v_{ij}) if $z_{ij} = 1$ (otherwise "NA" for "not applicable"), and observed presence/absence of HIS strains (t_{ij}) if $z_{ij} = v_{ij} = 1$ (otherwise missing data). Boldfaced entries are determined automatically by the value(s) in the preceding column(s).

i (Site Label)	Tick Label j (sorted)	z_{ij}	v_{ij}	t_{ij}
2 (602)	1	0	NA	0
	2	0	NA	0
	3	0	NA	0
	4	0	NA	0
	5	0	NA	0
	6	0	NA	0
	7	0	NA	0
	8	0	NA	0
	9	1	0	missing
	10	1	0	missing
	11	1	0	missing
	12	1	0	missing
	13	1	1	0
	14	1	1	1