

**Table S2 Diagnostic test sensitivity and specificity parameter estimate sensitivity to changes in the prior distribution.** In the table Prior indicates the parameters used for the Beta prior distribution, Parameter the name of the parameter (rhoD is the correlation between positive results and rhoDc between negative results), Test the name of the diagnostic test and 95 % CI, the 95 % Bayesian credible intervals of the estimates. Further details about the sensitivity analysis are presented in Supplement S1.

| Prior   | Parameter   | Test  | 95 % CI |       |
|---|-------------|-------|---------|-------|
| Beta( $\alpha=15.034, \beta=2.559$ ) <sup>+</sup> | Sensitivity | ELISA | 0.67    | 0.90  |
| Beta( $\alpha=9.628, \beta=3.876$ ) <sup>+</sup>  |             | IFAT  | 0.38    | 0.64  |
| Beta( $\alpha=15.034, \beta=2.559$ ) <sup>+</sup> | Specificity | ELISA | 0.62    | 0.97  |
| Beta( $\alpha=10.034, \beta=2.559$ ) <sup>+</sup> |             | IFAT  | 0.48    | 0.95  |
| ----  | rhoD        | ---   | -0.59   | -0.13 |
| ----  | rhoDc       | ---   | -0.39   | 0.77  |
| Beta( $\alpha=15.034, \beta=2.559$ )              | Sensitivity | ELISA | 0.69    | 0.95  |
| Beta( $\alpha=9.628, \beta=3.876$ )               |             | IFAT  | 0.36    | 0.63  |
| Beta( $\alpha=15.034, \beta=2.559$ )              | Specificity | ELISA | 0.60    | 0.97  |
| Beta( $\alpha=5.034, \beta=2.559$ )               |             | IFAT  | 0.24    | 0.90  |
| ----  | rhoD        | ---   | -0.57   | 0.04  |
| ----  | rhoDc       | ---   | -0.71   | 0.65  |
| Beta( $\alpha=15.034, \beta=2.559$ )              | Sensitivity | ELISA | 0.68    | 0.88  |
| Beta( $\alpha=6.628, \beta=3.876$ )               |             | IFAT  | 0.36    | 0.61  |
| Beta( $\alpha=15.034, \beta=2.559$ )              | Specificity | ELISA | 0.63    | 0.97  |
| Beta( $\alpha=10.034, \beta=2.559$ )              |             | IFAT  | 0.62    | 0.97  |
| ----  | rhoD        | ---   | -0.60   | -0.18 |
| ----  | rhoDc       | ---   | -0.25   | 0.80  |
| Beta( $\alpha=15.034, \beta=2.559$ )              | Sensitivity | ELISA | 0.69    | 0.89  |
| Beta( $\alpha=3.628, \beta=3.876$ )               |             | IFAT  | 0.33    | 0.59  |
| Beta( $\alpha=15.034, \beta=2.559$ )              | Specificity | ELISA | 0.64    | 0.97  |
| Beta( $\alpha=10.034, \beta=2.559$ )              |             | IFAT  | 0.61    | 0.97  |
| ----  | rhoD        | ---   | -0.61   | -0.18 |
| ----  | rhoDc       | ---   | -0.24   | 0.80  |
| Beta( $\alpha=15.034, \beta=2.559$ )              | Sensitivity | ELISA | 0.67    | 0.89  |
| Beta( $\alpha=9.628, \beta=3.876$ )               |             | IFAT  | 0.39    | 0.67  |
| Beta( $\alpha=10.034, \beta=2.559$ )              | Specificity | ELISA | 0.43    | 0.96  |
| Beta( $\alpha=10.034, \beta=2.559$ )              |             | IFAT  | 0.61    | 0.97  |
| Beta( $\alpha=15.034, \beta=2.559$ )              | Sensitivity | ELISA | 0.66    | 0.95  |
| Beta( $\alpha=9.628, \beta=3.876$ )               |             | IFAT  | 0.41    | 0.87  |
| Beta( $\alpha=5.034, \beta=2.559$ )               | Specificity | ELISA | 0.20    | 0.88  |
| Beta( $\alpha=10.034, \beta=2.559$ )              |             | IFAT  | 0.58    | 0.96  |
| ----  | rhoD        | ---   | -0.56   | 0.49  |
| ----  | rhoDc       | ---   | -0.90   | 0.59  |

<sup>+</sup>Results Presented in Table 1 of the main article