



Figure S1. Calculating the ID₅₀ for each experiment.

For each experiment we used data on the proportion of mice infected at each dose (the dose-response data) to estimate the ID₅₀. Firstly, we excluded from further analysis those experiments (N=8) for which fewer than 50% of hosts were infected at each dose or greater than 50% of hosts were infected at each dose. For these experiments it was not possible to accurately estimate the ID₅₀. To estimate the ID₅₀ for the remaining 119 experiments we used three different methods according to the number of doses at which the proportion infected was strictly between zero and one. A) If no dose met this criterion, the last dose with no mice infected was assigned to be the ID₅₀. B) If one dose met this criterion, the dose for that group was assigned to be the ID₅₀. C) If two or more doses met this criterion the ID₅₀ was calculated from the coefficients of a curve fitted by binary logistic regression and rounded to the nearest integer.