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| Chart, diagram  Description automatically generated |
| **Mockup 1.** Hypothetical example of statistical methods showing **(a)** raw experimental data, **(b)** linear-plateau curves (solid colored lines) fitted for each experimental sampling date (points with each date distinguished by color) and the critical N dilution curve (solid black line) fitted using the hierarchical Bayesian method based on Makowski et al. (2020), **(c)** critical points (opaque) and non-critical points (transparent) selected using conventional statistical analysis (i.e., ANOVA and protected multiple comparison) with critical N dilution curve (dotted line) fitted using conventional methods (i.e., non-linear regression using only the critical points), and **(d)** comparison of critical N dilution curves using the conventional statistical method (dotted line) and the Bayesian hierarchical method (solid line) both derived from the same original experimental data. |