

Supplementary Material

Applied Microbiology and Biotechnology

Estimation of PHA concentrations from cell density data in *Cupriavidus necator*

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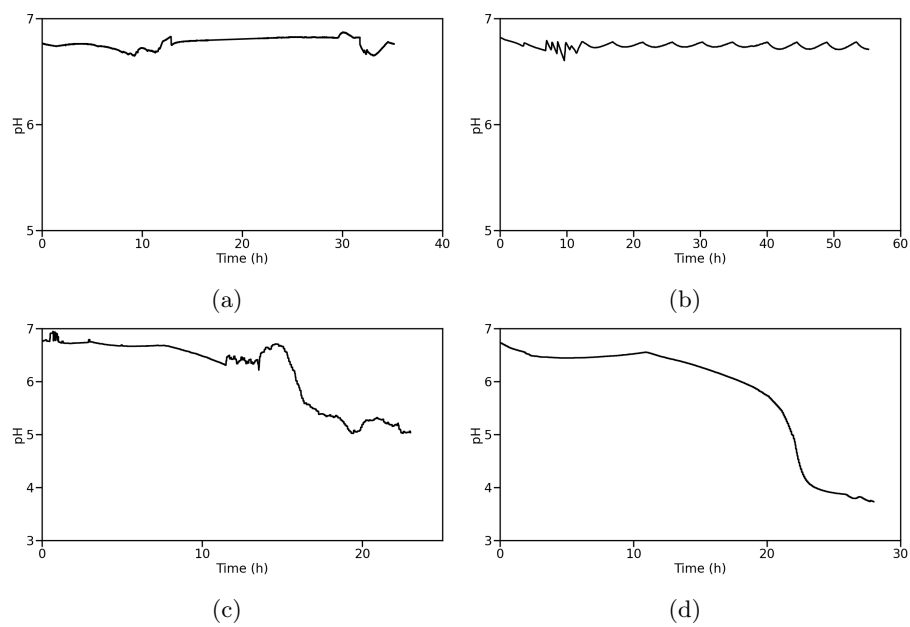


Fig. S1 pH over time. (a) PHB training experiment, (b) PHB test experiment, (c) PHBV training experiment, (d) PHBV test experiment

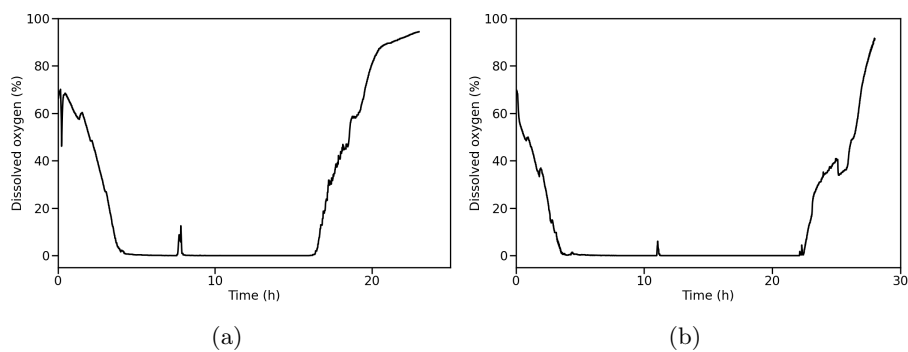


Fig. S2 Dissolved oxygen over time for the (a) PHBV training and the (b) PHBV test experiment

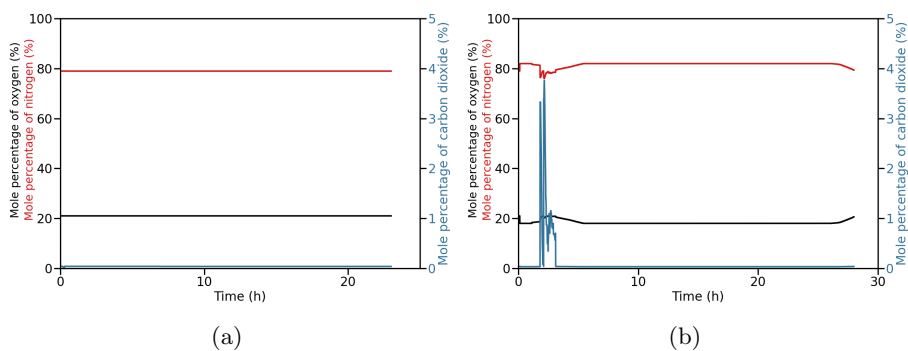


Fig. S3 Gas composition of inlet gas over time for the (a) PHBV training and the (b) PHBV test experiment. Mole percentage of oxygen (black line), nitrogen (red line), and carbon dioxide (blue line)

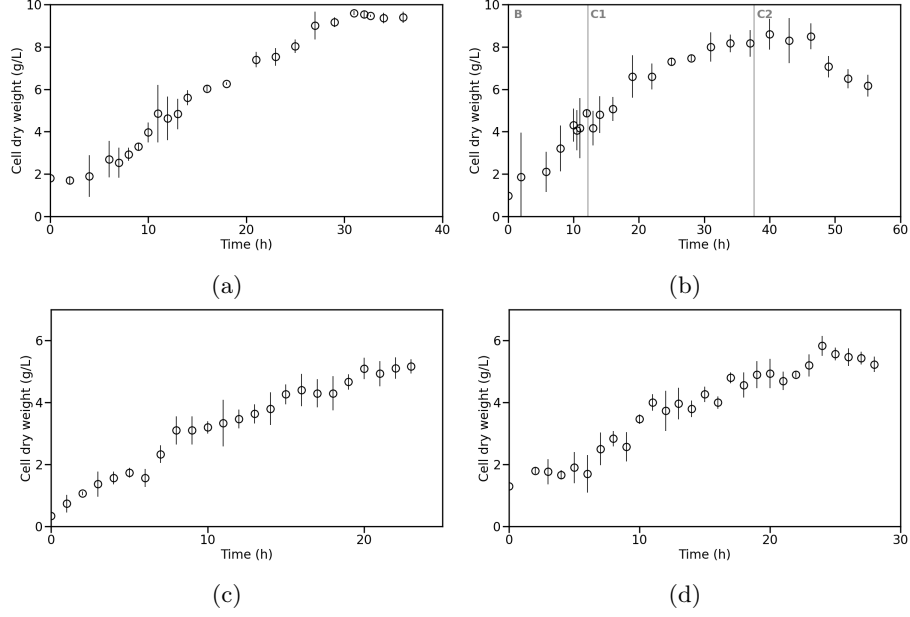


Fig. S4 Cell dry weight over time. (a) PHB training experiment, (b) PHB test experiment, (c) PHBV training experiment, (d) PHBV test experiment

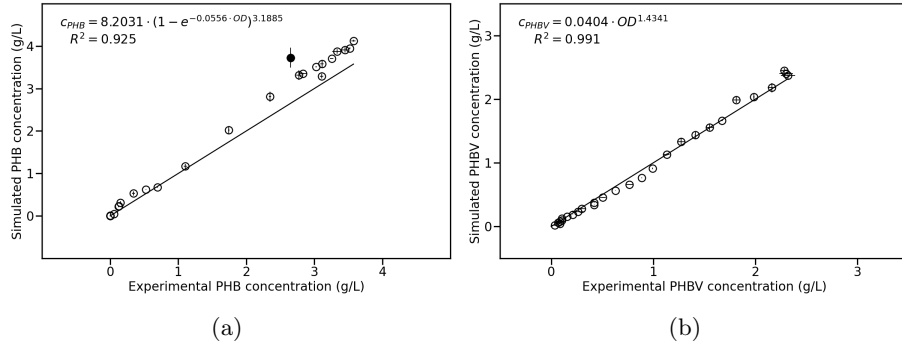


Fig. S5 Parity plots showing the distribution of experimental vs. simulated PHA concentrations. Additionally, the corresponding model equation and R^2 value are shown. (a) PHB test experiment, (b) PHBV test experiment

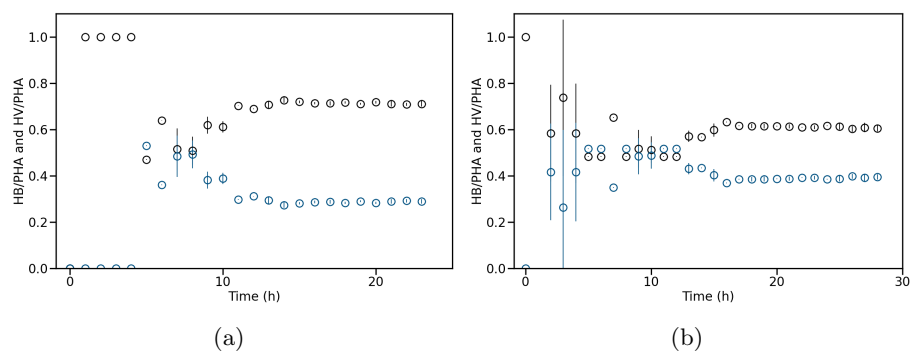


Fig. S6 HB (black circles) and HV content (blue circles) in the accumulated PHA, respectively, for the PHBV (a) training and (b) test experiment