

EMS-induced mutagenesis of *Clostridium carboxidivorans* for increased atmospheric CO₂ reduction efficiency and solvent formation

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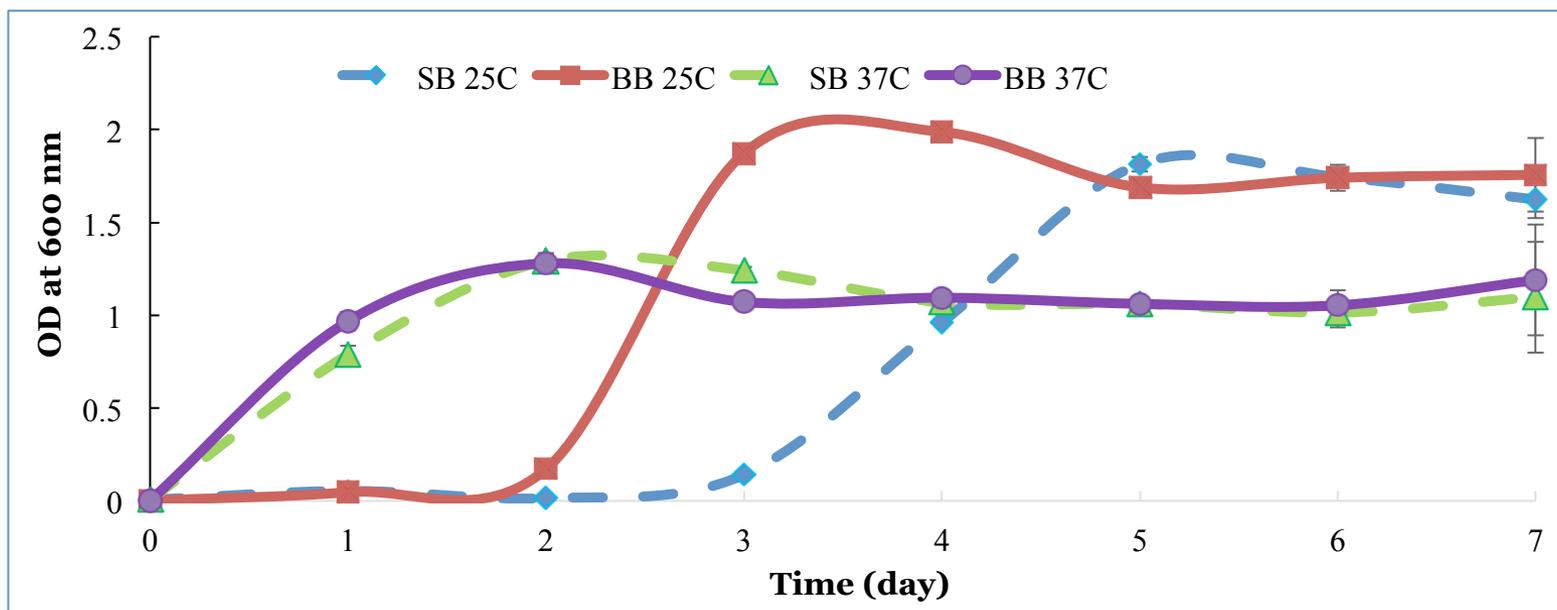
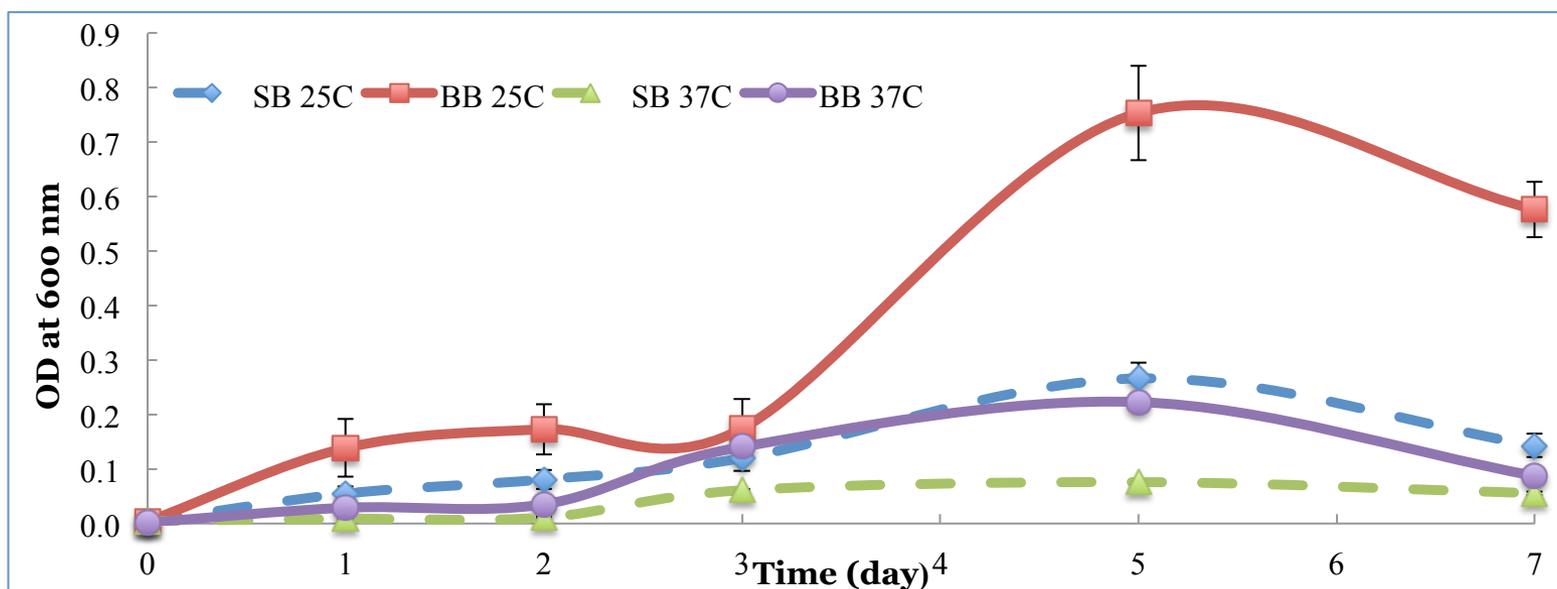
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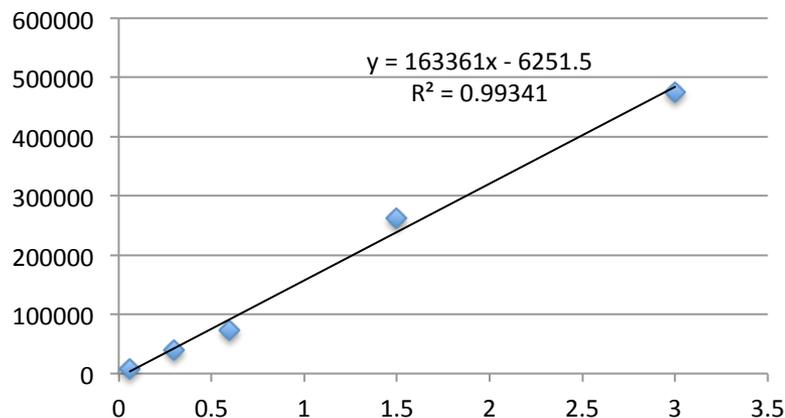
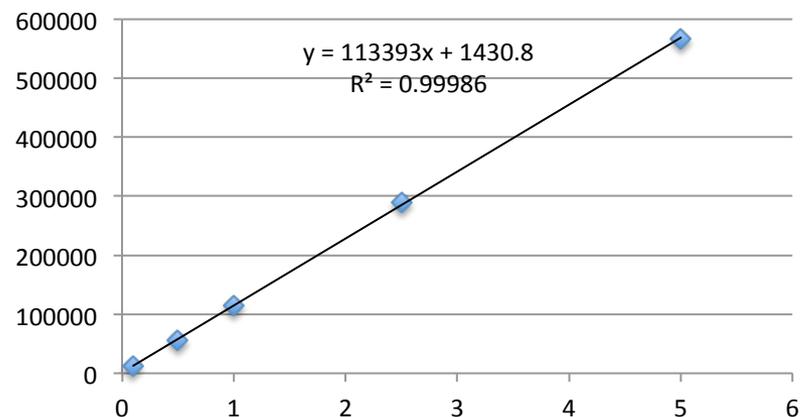
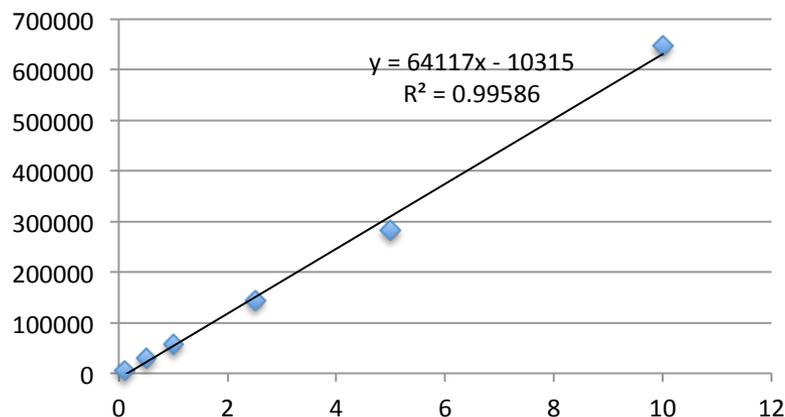
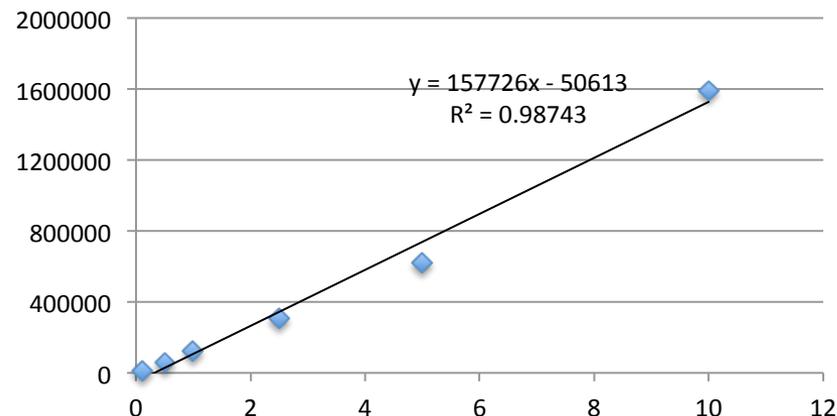
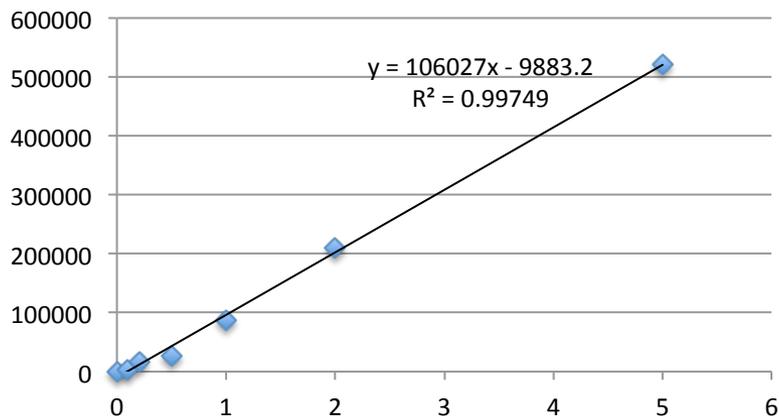
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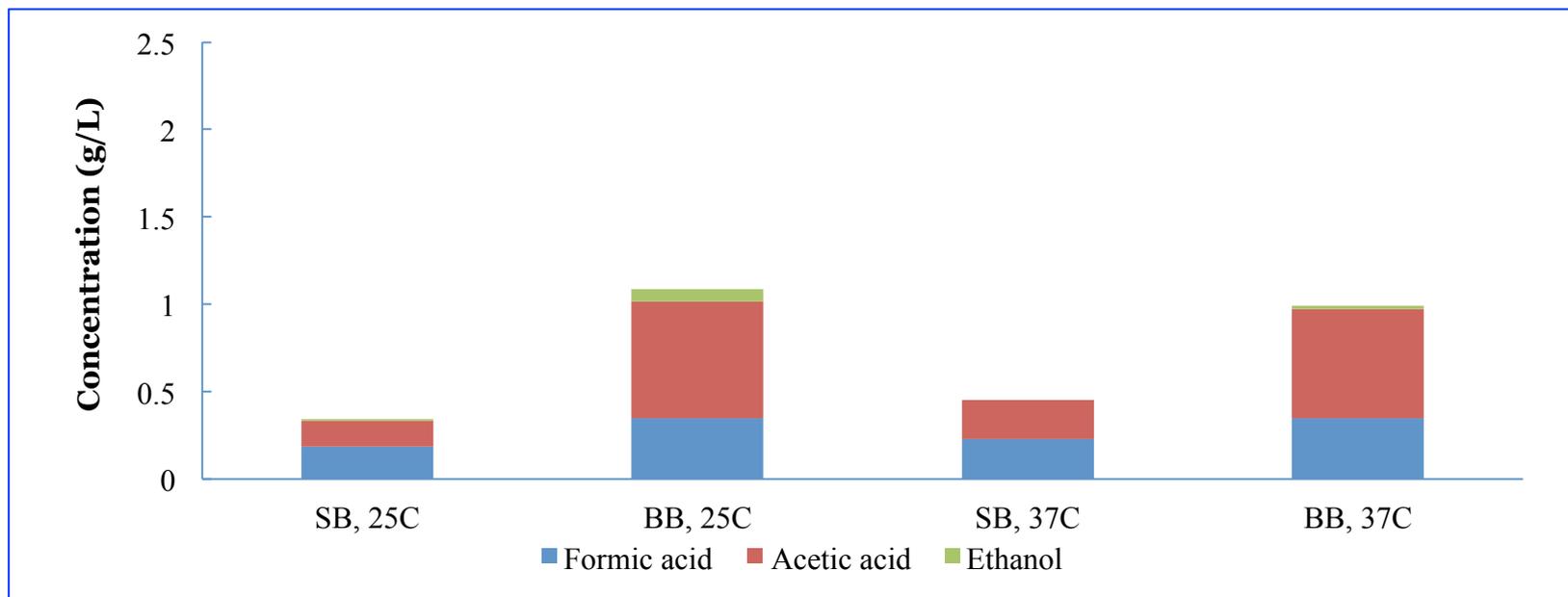
Supplemental information

A**B**

Materials: Supplemental Figure S1. Comparison of growth of the wild type P7 in the WC medium (A) and the 1754-B medium (B). The P7 performed better at 25 °C than at 37 °C in both WC and 1754-B medium.



Supplemental Figure S2. Calibration curves of (A) Formic acid, (B) Acetic acid, (C) Ethanol, (D) Butyrate acid, and (E) Butanol. Equation and R^2 are shown, ($R > 0.99$). Equations were used to calculate the P7-WT and P7-EMS mutant end products corresponding to each retention time detected by HPLC. The X-axis corresponds to the different concentrations used, the Y-axis corresponds to the peak area detected by HPLC.



Supplemental Figure S3. Comparison between the end products identified for the wild type P7 when grown in the 1754-B defined medium on day 7.