

# SUPPORTING INFORMATION

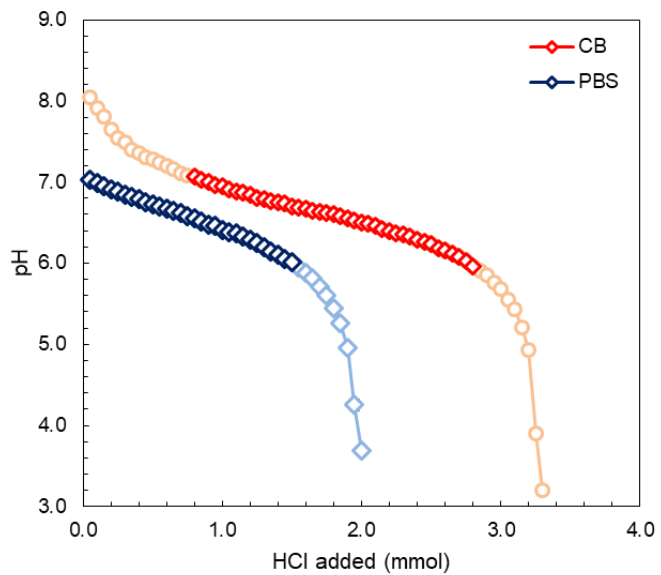
## **Chronoamperometry and linear sweep voltammetry reveals the adverse impact of high carbonate buffer concentrations on anode performance in microbial fuel cells**

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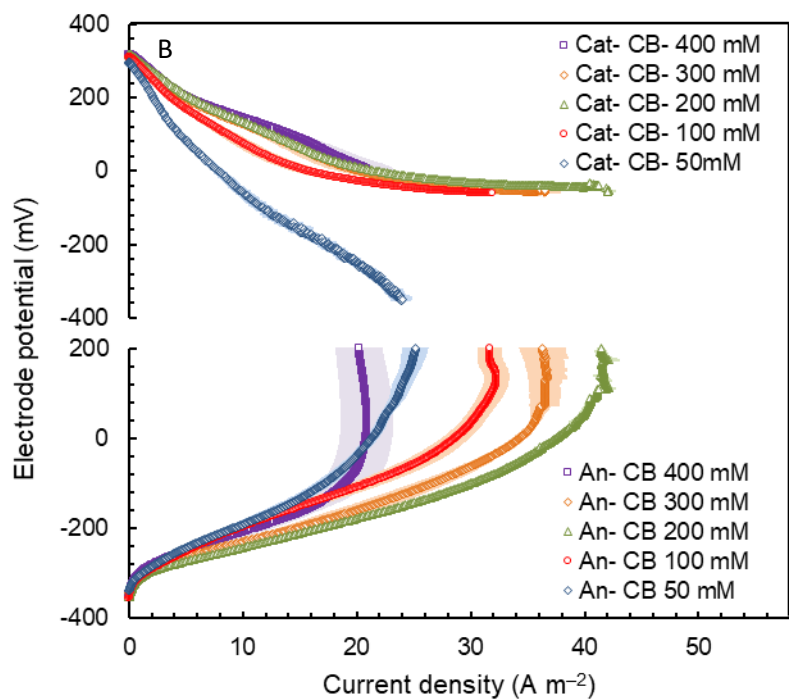
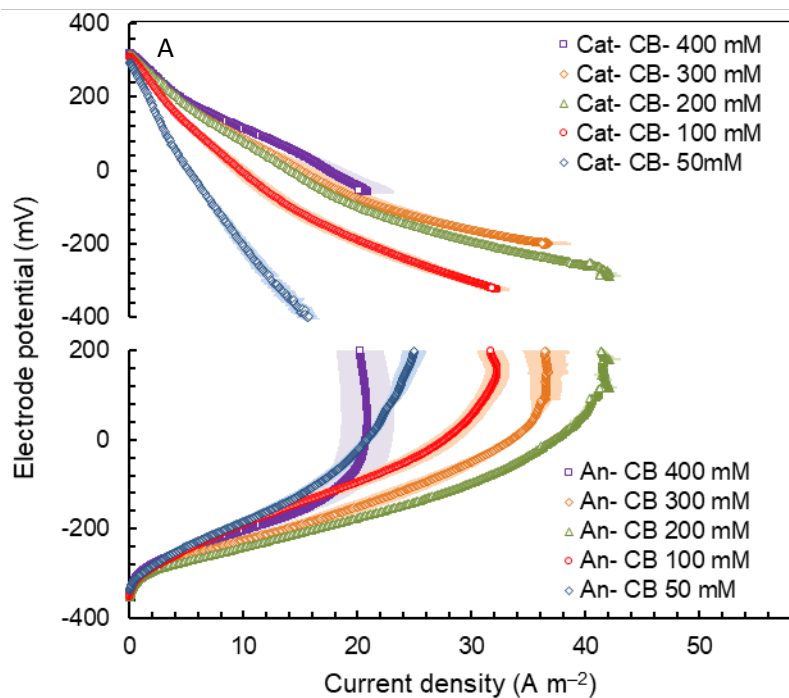
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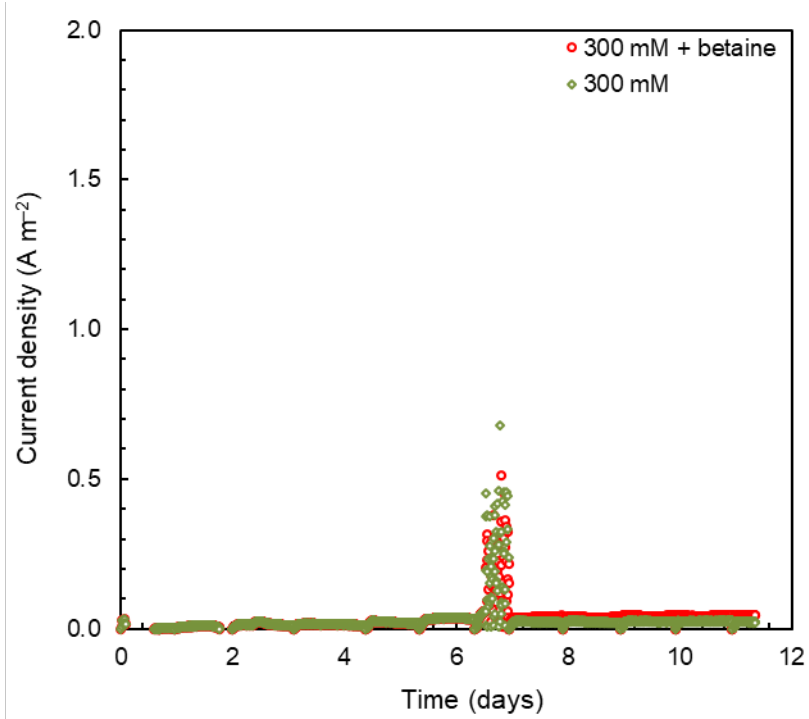
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**Figure S1:** Titration curve of 50 mM carbonate buffer (CB) and 50 mM phosphate buffer (PBS). The calculated buffer capacity is based only from pH 7 to pH 6 (superimposed with brighter color).



**Figure S2:** Cathode (Cat) and anode (An) potentials (A) not corrected and (B) corrected for solution resistance ( $R_{\Omega}$ ) from polarization tests.



**Figure S3:** Current density produced during inoculation of new MFCs fed with a solution of 50% CB 300 mM with and without betaine and 50% MFC effluent.