



Figure S5. Inactivation of an active biocathode. Cyclic voltammogram of an active rod biocathode in phosphate buffered medium at pH=6.3 with 50 mM NaCl in the anolyte and catholyte, and 100% CO₂ sparge (black). The active rod was exposed to sterile flowing air (40 mL/min) for 20 hours and the scan was repeated under 100% CO₂ sparge (blue). The O₂ inactivated rod was then autoclaved on a gravity cycle for 30 min and the scan was repeated again under 100% CO₂ sparge (red). An abiotic sterile control (gray) and the autoclave and O₂ inactivation treatments showed far less cathodic current densities than the active biocathode.