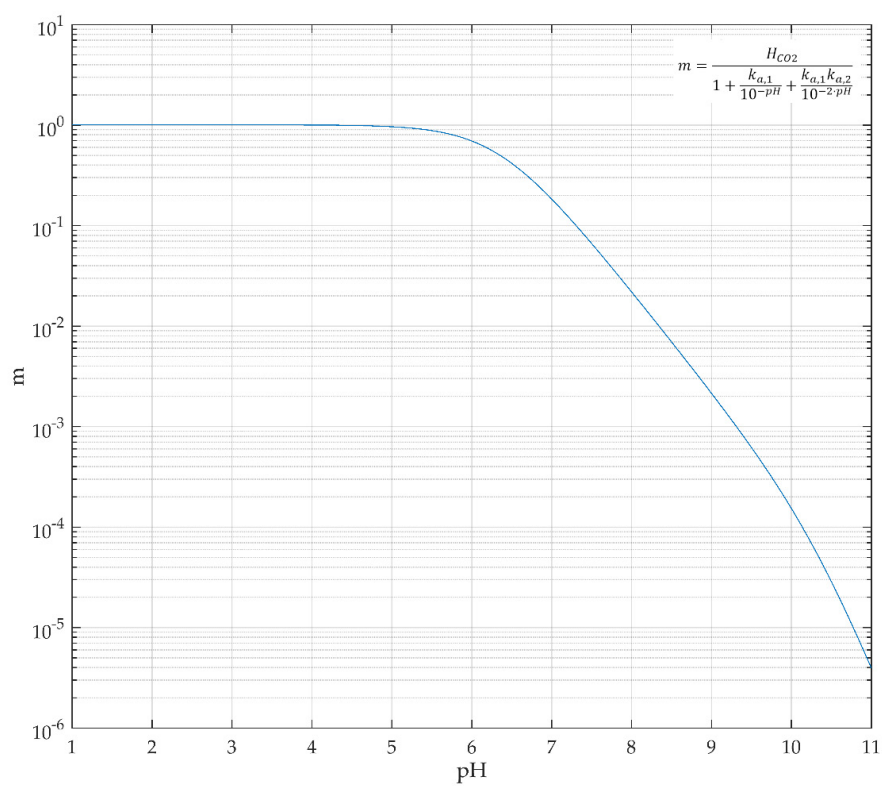
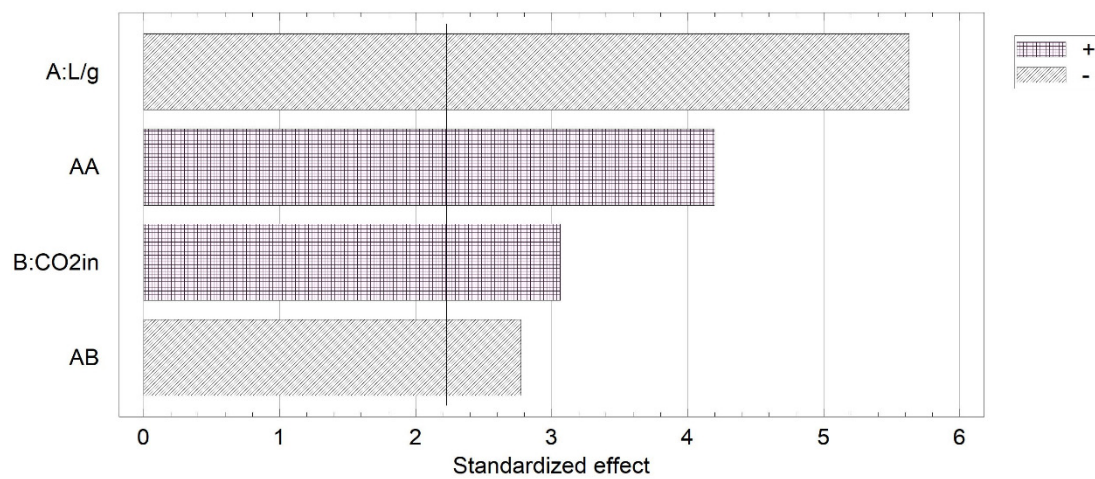


**Figure S1.** Optical photomicrograph of the consortium.



**Figure S2.** Variation in gas-liquid equilibrium constant as a function of pH.



**Figure S3.** Standardized Pareto Chart for outlet CO<sub>2</sub> empirical model.