

Additional file 1 – Calculated HCO₃⁻consumption for methane and acetate production Calculated HCO₃⁻ utilization by hydrogenotrophic methanogens and hydrogenotrophic

homoacetogens at the end of the experiments in the absence or presence of HEPES (denoted as H on the X-axis). A maximum of 1 mM HCO_3^- was assumed as carryover from the 10% inoculum culture, which was grown in 10 mM HCO_3^- medium. The stoichiometric requirement for methane is one HCO_3^- and for acetate is two HCO_3^- .