

Supplementary Information

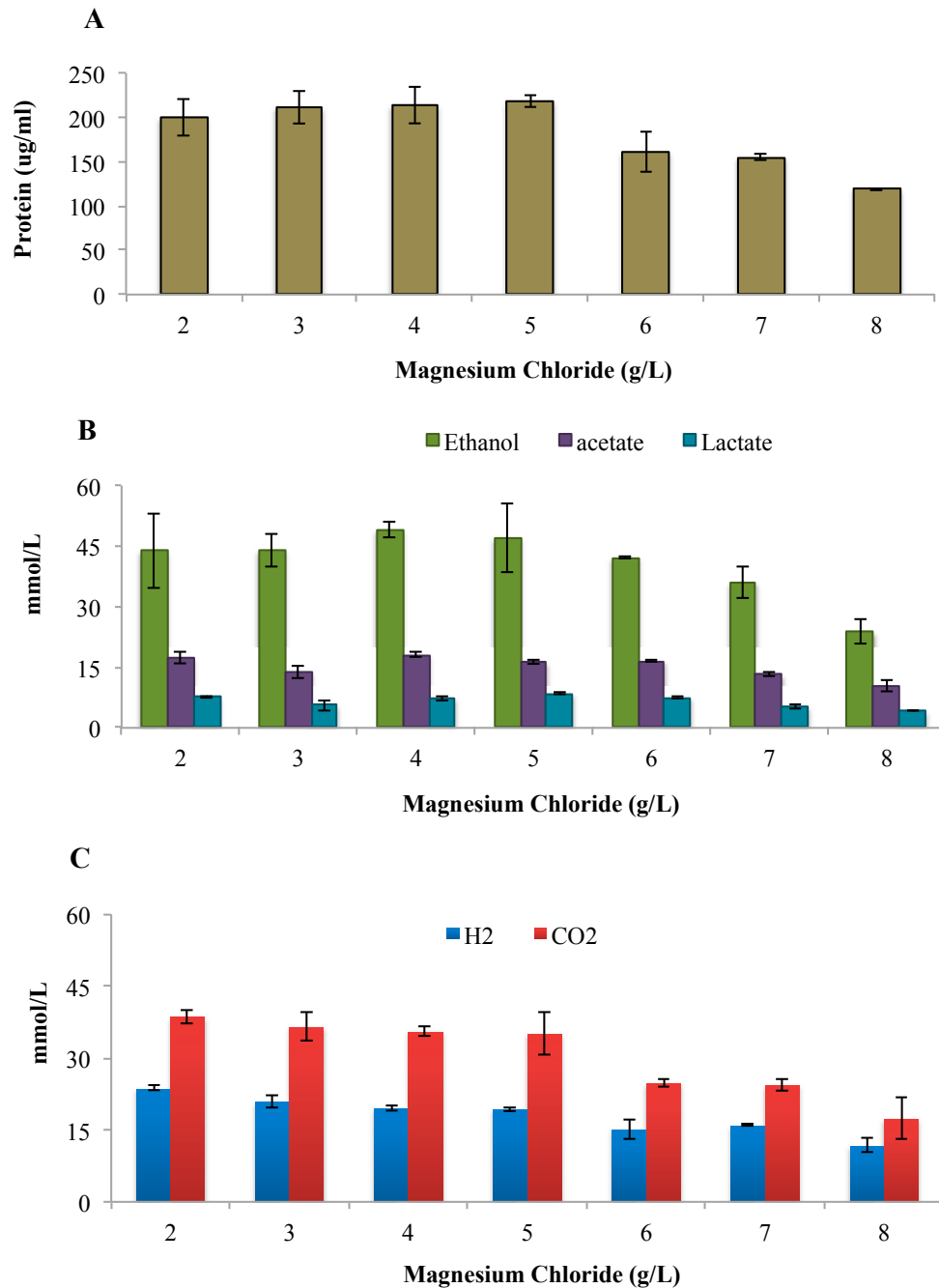


Figure S1. Effect of increased levels of MgCl_2 on ethanol production was examined by supplementing (up to 6 g/L) $\text{MgCl}_2 \cdot 6\text{H}_2\text{O}$ to the OptE (optimum composition for ethanol) composition. In terms of growth or production, cultures with supplemented MgCl_2 showed no significant improvement over OptE. Moreover, decreased growth (A) and production (B,C) were observed as the concentration of Mg^{2+} exceeded 29.51 mM (at 6 g/L $\text{MgCl}_2 \cdot 6\text{H}_2\text{O}$).