Supplementary Data
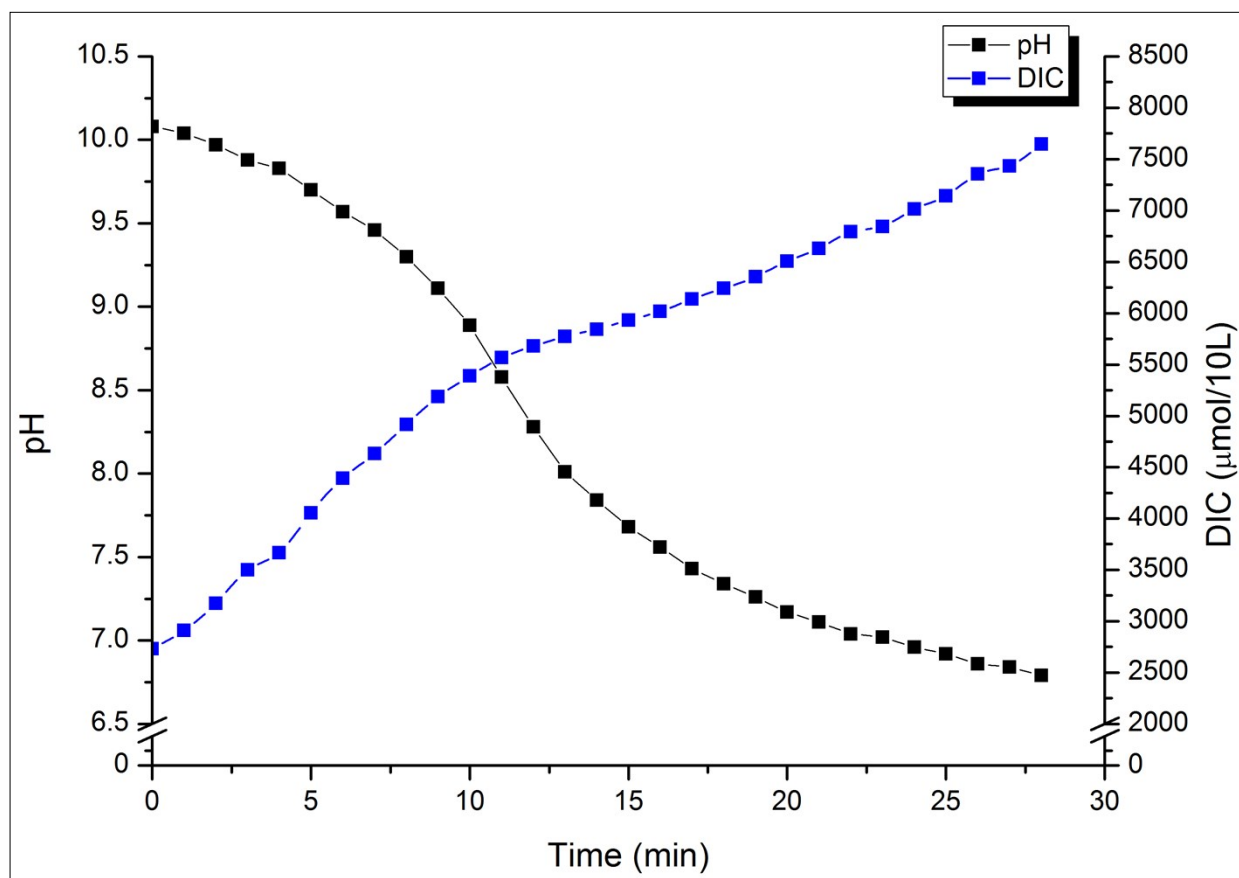
Figure S1. Estimation of *DIC* as a function of change in pH at constant TA. Plot is for $Q_G =$ 0.1 L•min^{-1}, $T_c = 28$ min.
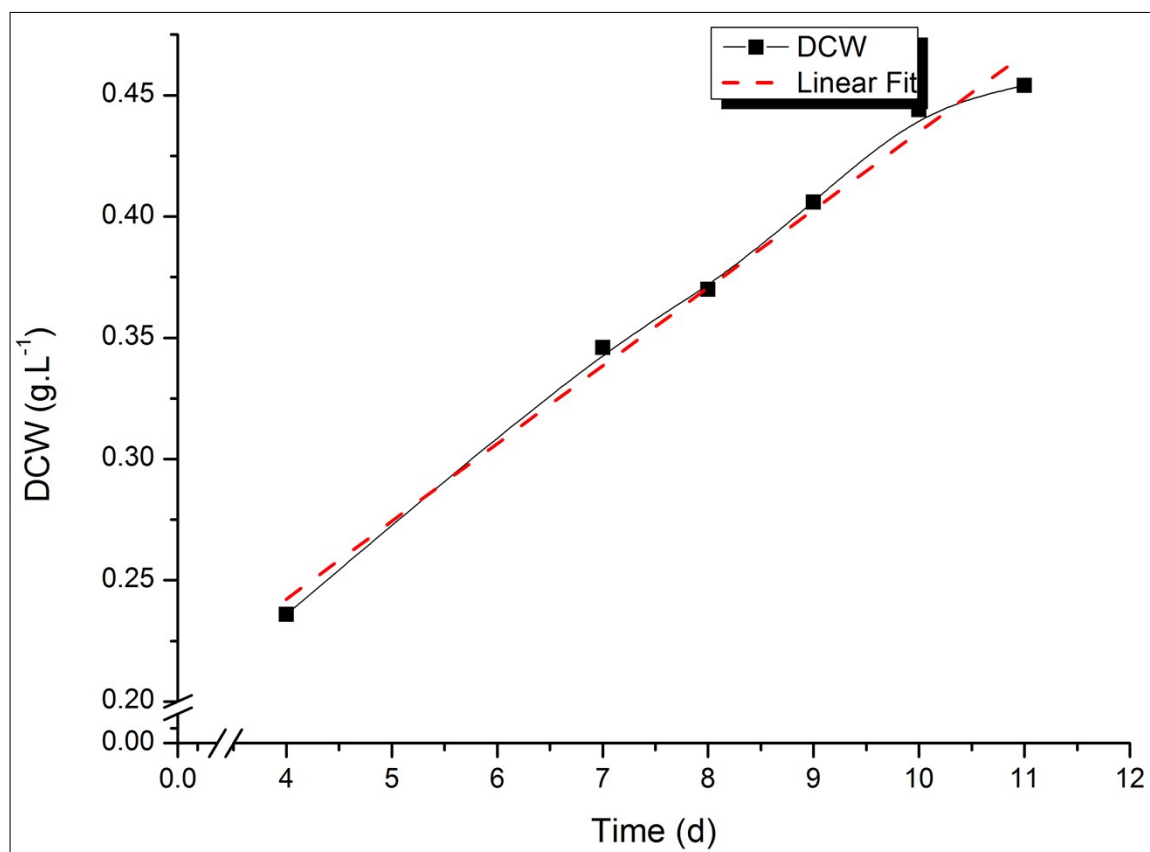
Figure S2. Linear fit of DCW and time of growth. Biomass productivity 'P_{max}' is obtained as slope of linear fit, where Pearson's r = 0.99, Adj. R^2 = 0.98
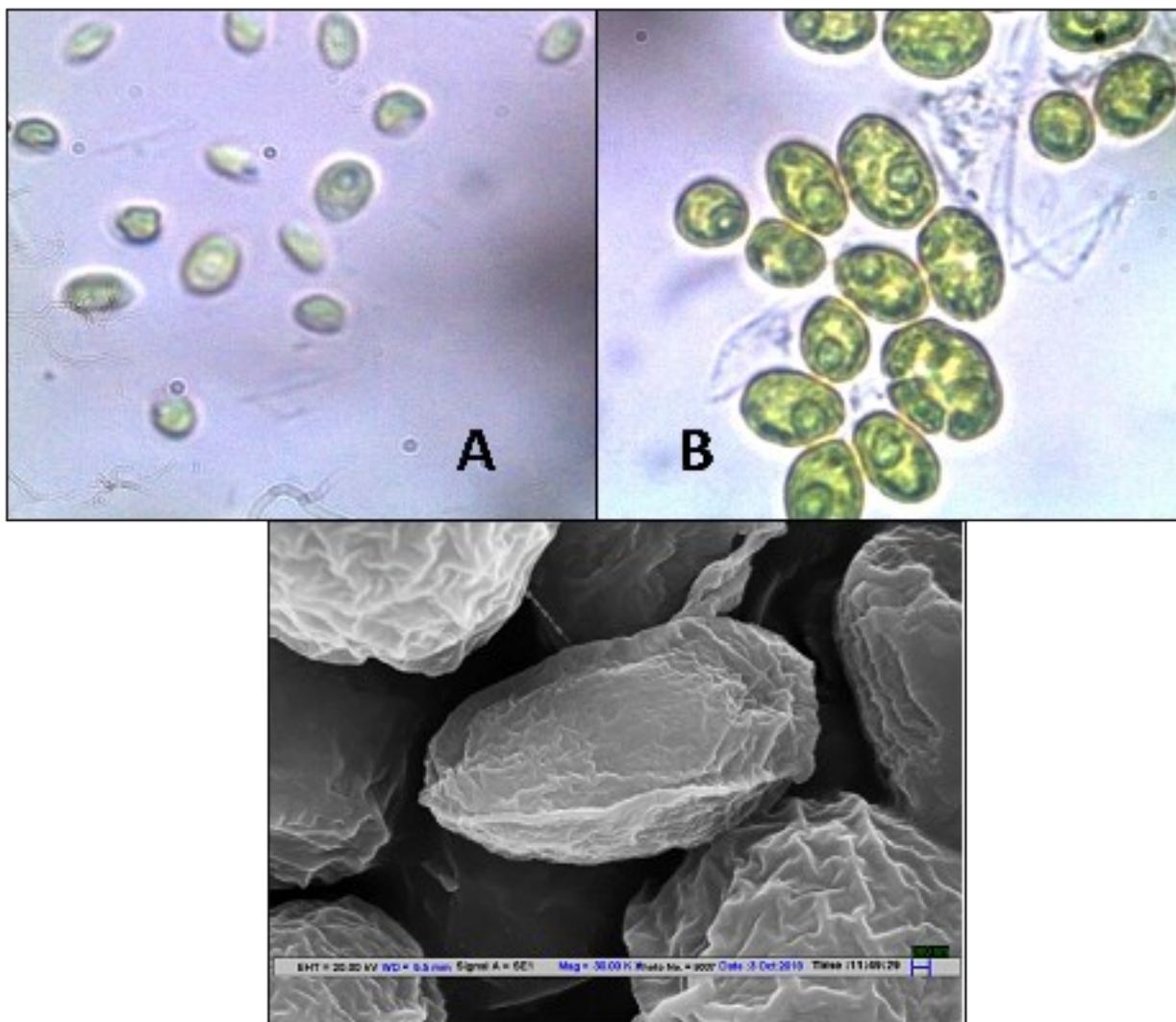
Figure S3. Microscopic image of PA4. Brightfield Image (TOP), A: Day 1, B: Day 11, Magnification =100x . SEM Image (BELOW), EHT =20kV, Magnification = 30,000x