



Figure S2. Batch growth and nitrate assay. Each data point represents the mean from three biological replicates. The optical density (OD 600) of *M. ruber* cells are matched to the *M. ruber* Nitrate samples. Error bars represent ± 1 standard deviation. The abiotic control experiment revealed no change in nitrate concentration and remained constant at $106 \pm 3 \text{ mg L}^{-1}$ over 48 h.