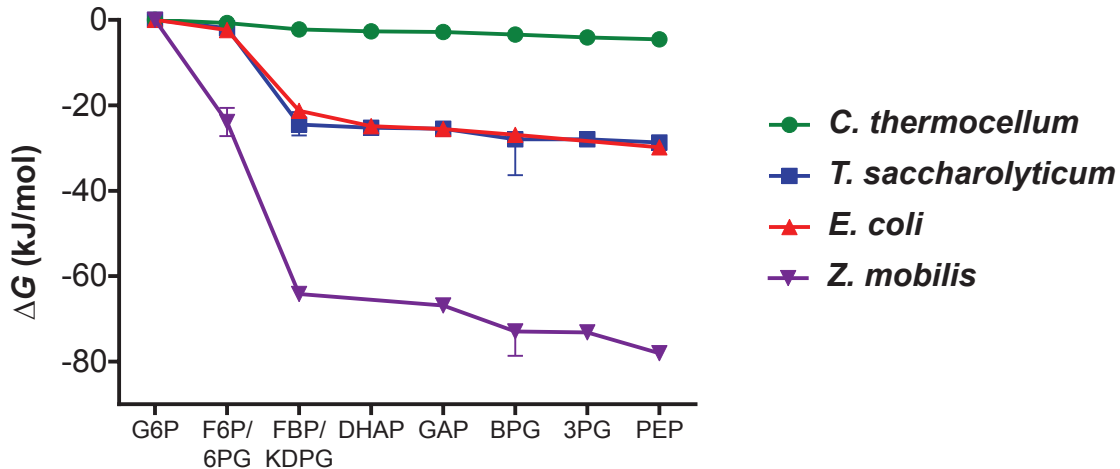


Cumulative free energy



E. coli free energy values are adapted from Park *et. al.*, 2019

Z. mobilis free energy values are adapted from Jacobson *et. al.*, 2019