Supplementary Table 4. Physiological concentrations of metabolites involved in the malic enzyme reaction in *B. subtilis*.

| metabolite | Concentration (mM) | Standard deviation |
|-------------------|--------------------|--------------------|
| Malate | 0.57° | 0.14 |
| Pyruvate | 8.90° | 5.75 |
| NAD ⁺ | 1.09 ^b | 0.52 |
| NADH | 0.43 ^b | 0.21 |
| NADP ⁺ | 0.19 ^b | 0.14 |
| NADPH | 0.36 ^b | 0.25 |

^a Estimates from Kleijn et. al. $(2010)^{25}$. ^b Concentrations calculated from the determined cofactor ratios in Fuhrer et al. $(2009)^{14}$ and absolute pool sizes of combined NAD+/NADH and NADP+/NADH²⁵.