



Figure 4. Model predicted flux values in central and C1 metabolism. The figure shows the range of flux values calculated using FVA that correspond to maximal biomass yields in lactate-limited aerobic growth when malate synthase, pyruvate formate lyase, NAD⁺ dependent isocitrate dehydrogenase, and fumarate reductase are constrained to be zero (see text for details). Flux values are reported as the percentage of the lactate consumption rate, 4.11 mmol/(g AFDW·h). Cellular growth rate was constrained to 0.085 h⁻¹. Metabolite abbreviations are described in text and/or doi:10.1371/journal.pcbi.1000822.g004