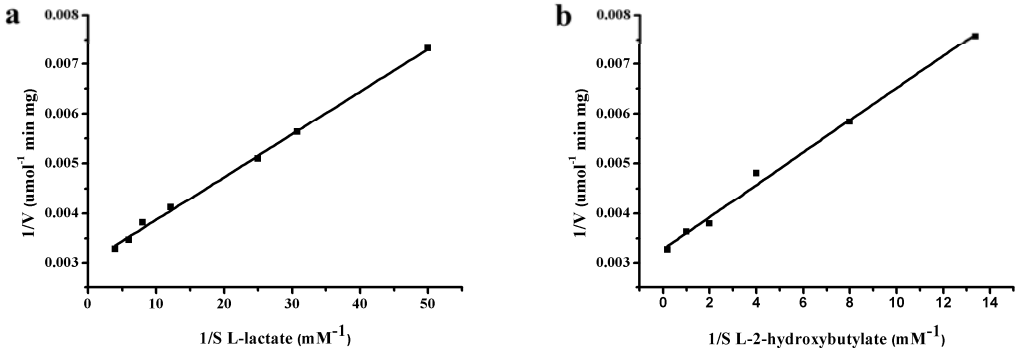

Figure S4. Apparent K_m of L-lactate and L-2-hydroxybutylate for L-iLDH in *P. stutzeri* SDM. The reaction mixture contained 0.2 mM MTT, 50 mM Tris–HCl (pH 7.5), and 0.1 μg purified L-iLDH. The reaction was started with variable L-lactate and L-2-hydroxybutylate concentrations. Double-reciprocal plots of the initial rates versus the concentration of L-lactate (a) and L-2-hydroxybutylate (b) were linear and yielded the K_m values of 29 ± 0.65 μM and 99 ± 3.9 μM, respectively, at 30°C. The V_{max} values were estimated to be 332.3 ± 5.4 μmol min^{-1} mg^{-1} for L-lactate, and 305.4 ± 7.9 μmol min^{-1} mg^{-1} for L-2-hydroxybutylate, with MTT as the electron acceptor. The dispersion values indicate the standard errors of the mean (SEM) of the linear regression analysis of one experiment.