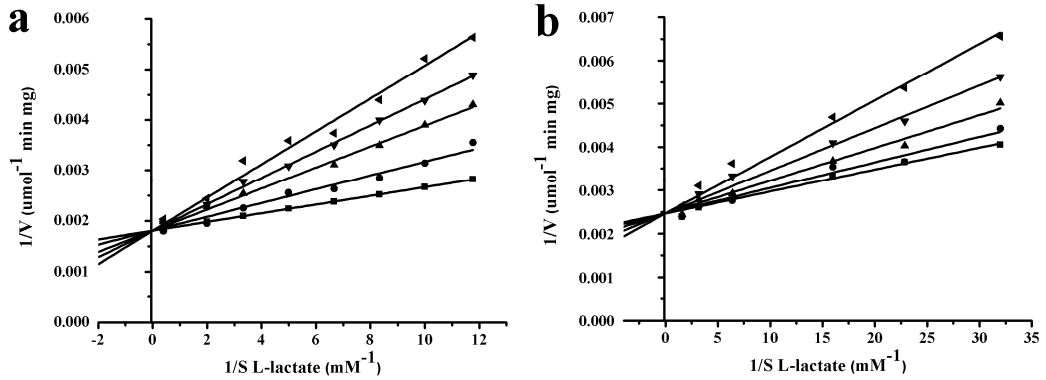

Figure S5. Inhibition of L-iLDH by oxalate and oxamate. Purified L-iLDH (0.1 μg) was incubated in the reaction mixture contained 0.2 mM MTT and 50 mM Tris–HCl (pH 7.5) at 30°C. (a) The reaction was started with different L-lactate concentrations at variable oxalate concentrations. ■, no oxalate; ●, 1.25 mM oxalate; ▲, 2.5 mM oxalate; ▼, 3.75 mM oxalate; ◄, 5 mM oxalate. (b) The reaction was started with different L-lactate concentrations at variable oxamate concentrations. ■, no oxamate; ●, 2.5 mM oxamate; ▲, 5 mM oxamate; ▼, 20 mM oxamate; ◄, 31.25 mM oxamate. The patterns of double-reciprocal plots indicate a competitive inhibition for both chemicals. The K_i values of oxalate and oxamate were estimated to be 1.9 ± 0.1 mM and 29 ± 1.7 mM, respectively. The dispersion values indicate the SEM of the linear regression analysis of one experiment.