

Table S1. Parameter estimates from linear mixed models of the effects of mass-specific cytochrome *c* oxidase (COX) activity and food treatment (fasted *versus* fed) on mass-specific mitochondrial respiration rate at state 3 and state 4 of the livers of juvenile brown trout *Salmo trutta* ($N = 12$ fish per treatment group). Parameter estimates for food treatment are for fasted relative to fed fish.

Dependent variable	Parameter	Estimate \pm1SE	<i>d.f.</i>	<i>t</i>	<i>P</i> value
State 3	Intercept	-2.185 \pm 9.644	18	-0.227	0.823
	COX activity	0.664 \pm 0.304	18	2.187	0.042
	Food treatment	4.050 \pm 1.711	19	2.367	0.029
State 4	Intercept	-0.796 \pm 0.659	21	-1.208	0.240
	COX activity	0.085 \pm 0.021	21	-4.084	0.001
	Food treatment	-0.477 \pm 0.117	21	-4.071	0.001