

Table S1. Variability between duplicate measurements and statistical results used in repeatability assessment of duplicate mitochondrial preparations. Repeatability was calculated as described in Lessells and Boag (1986).

Gill Tissue Measurement	% Difference	Sum of Squares Among Groups	Mean Squares Among Groups	Sum of Squares Within Groups	Mean Squares Within Groups	F _{dfa*} ,dfw†	Repeatability
Enzyme Activity							
Citrate Synthase (U*g tissue ⁻¹)	3.97 %	0.93	0.133	0.172	0.0215	6.326 _{7,8}	0.607
Cytochrome c Oxidase (U*g tissue ⁻¹)	0.56 %	2.18	0.311	0.418	0.0522	5.762 _{7,8}	0.618
Mitochondrial Respiration							
L _N (pmol*min ⁻¹ *mg ⁻¹)	7.56 %	7224	1032	7574.4	946.8	1.090 _{7,8}	0.989
P _{PM} (pmol*min ⁻¹ *mg ⁻¹)	2.98 %	72128	10304	13832	1729	5.751 _{7,8}	0.617
P _{PMG} (pmol*min ⁻¹ *mg ⁻¹)	3.08 %	119903	17129	22008	2751	6.226 _{7,8}	0.605
P _{PMGS} (pmol*min ⁻¹ *mg ⁻¹)	1.55 %	161371	23053	50632	6329	3.642 _{7,8}	0.752
L _{Omy} (pmol*min ⁻¹ *mg ⁻¹)	12.18 %	4865	608	1820	260	0.428 _{7,8}	0.857
P _{TM} (pmol*min ⁻¹ *mg ⁻¹)	13.19 %	62048	8864	49704	6213	1.427 _{7,8}	0.949
Quality of Mitochondrial Preparation							
RCR (P _{PM} /L _N)	1.51 %	13.265	1.895	9.008	1.126	1.683 _{7,8}	0.921
RCR (P _{PM} /L _{Omy})	9.92 %	43.428	6.204	9.368	1.171	5.299 _{7,8}	0.650
RCR (P _{PMGS} /L _{Omy})	0.85 %	33.313	4.759	17.760	2.220	2.144 _{7,8}	0.875

*dfa is the degrees of freedom amongst groups, †dfw is the degrees of freedom within groups