Supplemental Table 1. Mitochondrial enzyme activities, yield and respiratory function at 22 weeks following surgery in Protocol 2.

Mitochondrial Function	18% Protein Diet		30% Protein Diet
	Sham	Heart Failure	Heart Failure
Mitochondrial Enzyme Activities in Whole Tissue	(n=16)	(n=21)	(n=13)
Citrate synthase activity (µmols·g wet^{-1}·min^{-1})	132.2 ± 8.3	95.9 ± 7.3*	91.5 ± 6.7*
MCAD activity (µmols·g wet^{-1}·min^{-1})	13.1 ± 0.8	8.9 ± 0.7*	8.4 ± 0.5*
Aconitase activity (mmols·g wet^{-1}·min^{-1})	13.3 ± 1.3	10.6 ± 0.8	8.7 ± 0.6*
Subsarcolemmal Mitochondria			
Yield (mg mitochondrial protein/g wet mass)	16.3 ± 0.9	13.3 ± 1	14.5 ± 0.6
Citrate synthase activity (µmols·mg prot.$^{-1}$·min^{-1})	2.4 ± 0.2	2.2 ± 0.1	2.4 ± 0.2
MCAD activity (µmols·mg prot.$^{-1}$·min^{-1})	0.18 ± 0.02	0.17 ± 0.01	0.19 ± 0.02
Aconitase activity (µmols·mg prot.$^{-1}$·min^{-1})	50.1 ± 3.7	52.2 ± 4	59.6 ± 4.19
Respiration:			
Glutamate + malate: State 3	207.1 ± 9.7	214.3 ± 11.4	180 ± 12.1
Glutamate + malate: State 4	34.2 ± 2.3	36 ± 2.4	29.3 ± 2.3
Glutamate + malate: RCR	6.3 ± 0.4	6.2 ± 0.3	6.3 ± 0.4
Glutamate + malate: ADP:O	2.03 ± 0.08	1.89 ± 0.07	2.15 ± 0.06
Palmitoylcarnitine: State 3	247.2 ± 13.8	207.9 ± 10.2*	199.6 ± 11.4*
Palmitoylcarnitine: State 4	56.4 ± 2.7	57.4 ± 2.1	57 ± 4.8
Palmitoylcarnitine: RCR	4.4 ± 0.2	3.6 ± 0.1	3.6 ± 0.2
Palmitoylcarnitine: ADP:O	2.23 ± 0.07	2.29 ± 0.08	2.34 ± 0.09
Rotenone + Succinate: State 3	368 ± 18.3	355 ± 17	332 ± 19.5
Rotenone + Succinate: State 4	133 ± 5.6	124 ± 7	123 ± 9.6
Rotenone + Succinate: RCR	2.7 ± 0.1	2.9 ± 0.1	2.8 ± 0.2
Rotenone + Succinate: P:O	1.37 ± 0.08	1.45 ± 0.06	1.40 ± 0.07
Interfibrillar Mitochondria			
Yield (mg mitochondrial protein/g wet mass)	13.5 ± 0.5	8.5 ± 0.3*	8.4 ± 0.9*
Citrate synthase activity (µmols·mg prot.$^{-1}$·min^{-1})	2.7 ± 0.2	2.5 ± 0.1	2.5 ± 0.1
MCAD activity (µmols·mg prot.$^{-1}$·min^{-1})	0.25 ± 0.02	0.19 ± 0.01	0.21 ± 0.02
Aconitase activity (µmols·mg prot.$^{-1}$·min^{-1})	47.2 ± 3.6	50.8 ± 4.5	53 ± 3.4
Respiration:			
Glutamate + malate: State 3	242.5 ± 11	234 ± 9.1	214.5 ± 16.6
Glutamate + malate: State 4	38.1 ± 3.2	42.1 ± 2.6	38.7 ± 3.9
Glutamate + malate: RCR	6.8 ± 0.5	5.8 ± 0.2	5.9 ± 0.5
Glutamate + malate: ADP:O	2.35 ± 0.12	2.19 ± 0.09	2.36 ± 0.12
Palmitoyl Carnitine: State 3	339.3 ± 23.8	243.7 ± 15.2*	213.1 ± 7.5*
Palmitoyl Carnitine: State 4	70.4 ± 4.8	68.1 ± 3.6	63.4 ± 4.7
Palmitoyl Carnitine: RCR	5.0 ± 0.4	3.6 ± 0.2*	3.5 ± 0.2*

Palmitoyl Carnitine: ADP:O	2.39 ± 0.1	2.36 ± 0.08	2.38 ± 0.11
Rotenone + Succinate: State 3	498 ± 21.5	493 ± 21	444.5 ± 30.8
Rotenone + Succinate: State 4	176 ± 6.7	182 ± 9	166 ± 15
Rotenone + Succinate: RCR	2.9 ± 0.1	2.8 ± 0.1	2.8 ± 0.2
Rotenone + Succinate: ADP:O	1.42 ± 0.07	1.28 ± 0.05	1.41 ± 0.07

* $p<0.05$ compared to the sham group. There were no significant differences between the two heart failure groups.