NASA Life Sciences Data Archive
Investigator name: Kenneth Baldwin
Mission (Payload): STS-58 (SLS-2)
Experiment title (ID): Effects of Zero-Gravity Exposure on Biochemical and Metabolic Properties of Skeletal Muscle (178127)
File name/Inventory ID: Preflight data folder

SLS-2

Total and Myofibril Protein (mg/g)

	L+0	L+14	
	Control	Control	Flight
Soleus			
	245(10 9)	249(9.8)	251(9.3)
	119(6.1)	101(6.1)	105(10.8)
VI			
	238(4.6)	237(9.1)	254(25.4)
	108(1.0)	102(3.2)	108(4.6)
Plantaris			
	244(9.4)	240(21.8)	246(17.5)
	104(3.1)	107(6.7)	110(8.3)

Total and Myofibril Protein (mg/muscle)

	L+0	L+14	
	Control	Control	Flight
Soleus			
	30.1(1.6)	32.9(1.5)	26.2(2.4)
	14.6(0.9)	13.7(1.6)	10.3(0.3)
VI			
	28.6(1.5)	25.3(2.6)	22.3(1.9)
	13.0(0.5)	10.8(0.6)	9.6(0.8)
Plantaris			
	80.7(2.7)	99.9(14.3)	79.9(1.6)
	34.6(2.0)	43.8(3.7)	35.6(1.1)

SLS-2 (L+14) Total and Myofibril Protein (mg/g)

Sol		VI	
C	F	C	F
249(9.8)	251(9.3)	237(9.1)	254(25.4)
101(6.1)	105(10.8)	102(2.2)	108(4.6)

Plant		TA	
C	F	C	F
240(21.8)	246(17.5)	239(8.1)	224(13.4)
107(6.7)	110(8.3)	129(4.2)	132(12.4)

MG R		VL R	
C	F	C	F
244(15.2)	263(21.2)	234(12.2)	243(11.2)
103(1.6)	114(6.6)	104(3.3)	113(8.8)

MG M		VL M	
C	F	C	F
251(10.4)	283(20.3)	240(7.9)	244(11.9)
124(4.1)	135(15.5)	107(7.0)	120(9.0)

MG W		VL W	
C	F	C	F
252(13.7)	250(3.1)	230(5.6)	245(15.3)
128(6.0)	112(9.1)	114(10.1)	115(9.3)