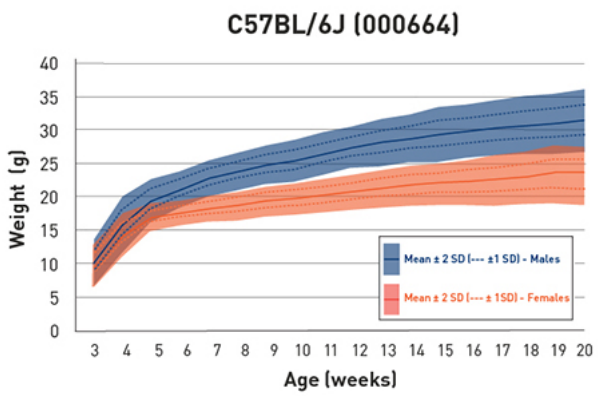
Physiological Data Summary – C57BL/6J (000664)

Revised: December 13, 2007

Complete data with range and standard deviations available from the Mouse Phenome Database (MPD, *www.jax.org/phenome*).



Body Weights	Age (weeks)	3	4	5	6	7	8	9
Female	Mean	-	12.26	15.51	16.65	17.54	18.28	18.91
	SD	-	1.61	1.49	1.31	1.32	1.38	1.43
Male	Mean	-	13.59	17.93	20.39	22.42	23.73	24.84
	SD	-	1.59	1.43	1.43	1.40	1.47	1.61

	Age (weeks)	10	11	12	13	14	15	16
Female	Mean	19.63	20.09	20.58	21.21	21.67	21.99	22.15
	SD	1.55	1.60	1.69	1.80	2.17	2.12	2.09
Male	Mean	25.97	27.01	27.82	28.49	29.18	29.71	29.97
	SD	1.70	1.57	1.58	1.69	1.75	1.85	1.87

Approximately 100 mice of each sex were obtained at weaning (BD +/- one day) from production rooms individually identified and weighed the same day every week. The mice were fed a diet containing 6% fat (LabDiet® 5K52/5K67) from weaning at four weeks until 16 weeks of age.

Parameter	Units	Females		Males	
Hematology					
Age	Weeks	8	16	8	16
White blood cell count (WBC)	10^3 cells/µL	3.48	2.67	2.62	3.10
Red blood cell count (RBC)	10^6 cells/µL	10.77	10.90	10.59	10.62
Hemoglobin	g/dL	17.0	16.4	16.20	16.0
Hematocrit	%	51.5	51.2	52.1	51.8
Mean cell volume (MCV)	fL	47.8	47.0	49.2	48.8
Mean cell hemoglobin (MCH)	pg	15.8	15.1	15.4	15.2
Mean cell hemoglobin concentration (MCHC)	g/dL	33.2	32.1	31.2	31.1
Platelet count	10^3 cells/µL	1019	1085	1157	1310
Mean platelet volume (MPV)	fL	6.7	6.6	7.0	6.4
Percent reticulocytes	%	3.6	3.1	3.8	2.9
Reticulocyte hemoglobin	pg	15.8	15.5	15.8	15.1
Reticulocyte count	10^9 cells/L	387.9	335.7	400.8	302.7
Percent neutrophils	%	7.4	8.3	18.5	33.9
Percent Lymphocytes	%	88.6	86.6	76.7	61.6
Percent Monocytes	%	0.7	1.0	1.4	2.0
Percent Eosinophils	%	2.6	3.2	2.6	1.7
Percent Basophils	%	0.2	0.2	0.2	0.2
Neutrophil count	10^3 cells/µL	0.25	0.23	0.52	1.17
Lymphocyte count	10^3 cells/µL	3.08	2.32	1.98	1.80
Monocyte count	10^3 cells/µL	0.03	0.03	0.04	0.06
Eosinophil count	10^3 cells/µL	0.09	0.08	0.06	0.05
Basophil count	10^3 cells/µL	0.01	0.00	0.01	0.01
Biochemistry					
Albumin	g/dL	3.9	4.2	3.7	3.9
Total protein	g/dL	6.1	6.4	6.0	6.4
Blood urea nitrogen	mg/dL	27	22	24	27
Calcium	mg/dL	10.6	10.4	10.4	10.9
Phosphorous	mg/dL	10.3	10	10.3	9.3
Cholesterol	mg/dL	79	70	100	93
HDL cholesterol	mg/dL	67.2	58.5	89.9	79.7
Triglycerides	mg/dL	93	67	80	71
Free fatty acids	mEq/L	1.72	1.69	2.07	1.81
Glucose	mg/dL	176	152	156	159
Alanine tranferase	IU/L	43	40	57	79
Creatine kinase	IU/L	720	358	799	601
Thyroxine/T4	µg/dL	5.7	6.1	4.9	4.5

Parameter	Units	Females		Males	
Organ Weights					
Age	Weeks	8	16	8	16
Brain	g	0.417	0.415	0.423	0.420
	% of body weight	2.35	1.89	1.75	1.38
Heart	g	0.109	0.145	0.151	0.200
	% of body weight	0.61	0.66	0.62	0.66
Liver	g	0.913	1.038	1.271	1.444
	% of body weight	5.12	4.72	5.25	4.74
Left kidney	g	0.103	0.117	0.142	0.164
	% of body weight	0.58	0.53	0.58	0.54
Right kidney	g	0.159	0.134	0.149	0.174
	% of body weight	0.90	0.61	0.61	0.57
Spleen	g	0.072	0.081	0.084	0.080
	% of body weight	0.41	0.37	0.35	0.26

Body Composition by DEXA Analysis					
DEXA body weight	g of total tissue	17.70	19.91	21.88	27.08
Bone mineral density	g/cm^2	0.044	0.050	0.046	0.055
Bone mineral content	g	0.327	0.404	0.373	0.462
Bone area	cm^2	7.73	8.04	8.12	8.45
Lean tissue	g	14.6	15.9	18.1	22.5
Fat tissue	g	3.1	4.0	3.8	4.6
Percent fat tissue	%	17.7	19.8	17.4	16.8

Flow Cytometry - Spleen					
Lymphoid cells					
B cells					
B cells (B220+)	%	56.13	67.12	57.80	-
T cells					
CD4 T cells (CD3+, CD4+)	%	15.51	12.22	13.60	-
CD8 T cells (CD3+, CD8+)	%	9.99	8.37	8.63	-
NK cells (CD3-, NKG2D+)	%	1.93	1.10	1.94	-
NKT cells (CD3+, NKG2D+)	%	0.98	0.89	1.12	-
Myeloid cells					
Granulocytes (MAC1+, GR1+)	%	0.93	0.78	1.26	-
Monocytes (MAC1+, GR1-)	%	3.71	2.94	4.24	-

For eight week data, mice of each sex were obtained at eight weeks of age (BD +/- three days) from production rooms. For 16 week data, mice of each sex were obtained at weaning (BD +/- one day) from production rooms and maintained until 16 weeks of age. All measurements are non-fasted values.