

Supplementary Materials for Appendix 2

Specific Pathogen Free New Zealand White Rabbit Blood Chemistry and CBC

Parameter	Ref. Low		Ref. High		12 Month								6 Month								3 Month								
	B-51		B-71		B-51	B-52	B-53	B-54	B-55	B-56	B-57	B-58	B-59	B-60	B-61	B-62	B-63	B-64	B-65	B-66	B-67	B-68	B-69	B-70	B-71				
Rabbit ID#																													
Glucose		74	148		123	248	127	251	136	138	139	169	209	174	273	201	143	151	167	175	138	176	132	163	136				
AST		33	99		10	19	10	14	15	154	11	17	20	18	64	32	69	20	34	32	12	19	25	30	17				
ALT		25	65		27	23	17	23	18	35	14	28	24	49	46	19	46	21	52	35	25	45	31	34	26				
Alk. Phosphatase		10	86		22	18	10	23	23	***	22	32	52	55	18	57	41	33	48	41	62	48	41	59	38				
Ck (CPK)					1200	1467	1616	1511	2712	1747	1846	1023	4770	748	5479	5155	4382	2430	934	1244	374	908	1138	1136	1925				
Total Bilirubin		0.2			0.5	0.1	0.2	0.1	0.1	0.1	0.4	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1				
Total Protein		5	7.5		5.3	5	5.6	5.5	5.6	9.8	5.7	5.6	5.9	5.4	5.3	5.7	5.1	5.2	5	5.4	5	5.2	4.8	4.9	4.9				
Albumin		2.7			5	4.4	4.2	4.6	4.5	4.3	8.8	4.5	4.3	4.6	4.3	4.6	4	4.2	4.1	4.3	4.1	4.4	4	4.1	4.2				
Globulin		1.5	2.7		0.9	0.8	1	1	1.3	1	1.2	1.3	1.3	1.1	1	1.1	1.1	1	0.9	1.1	0.9	0.8	0.8	0.8	0.7				
Cholesterol		10	100		36	28	21	46	22	351	18	13	25	16	24	38	54	24	56	43	88	33	42	46	41				
Urea Nitrogen		5	25		18	20	21	22	20	21	18	21	20	22	20	17	19	17	24	22	25	20	21	25	34				
Creatinine		0.5	2.6		1.1	1.2	1.1	1.1	1.2	1.3	1.2	0.9	0.9	0.9	0.9	0.9	0.9	1.2	1.5	1.4	1.2	1.2	1.4	1.3	1.4				
Calcium					14.2	13.5	14.6	14.2	14	12.4	14	13.7	14.2	14	13.4	14.4	13.2	14.1	13.8	14.2	12.8	13.3	13.7	13.6	13.4				
Phosphorus		4	6		2.6	3.6	3	4.2	3.2	6.4	3	3.1	4	3.1	3.5	3.1	3	3.1	4.1	4.4	4	3.7	2.9	4.1	4.3				
Sodium		125	150		141	139	141	142	141	121	141	144	142	143	142	144	140	143	141	143	143	143	142	142	140				
Potassium		3.7	7		5.9	7	6.9	6.9	5.9	15***	5.8	4.6	4.6	4.6	4.4	4.2	4.5	4.7	4.5	4.9	5.7	5.2	4.7	6.3	5.9				
Chloride		92	120		101	100	102	98	103	94	101	105	100	99	100	98	102	105	101	104	104	108	105	103	103				
TCO2					26.9	27.5	23.9	24.9	27.5	12.6	31.5	26.7	26.8	29.8	29.3	28.2	24.9	23.6	24.1	21.3	26.7	25.6	28	26.9	28.1				
Anion Gap					19	18.5	22	26	16.4	29.4	14.3	16.9	19.8	18.8	17.1	22	17.6	19.1	20.4	22.6	18	14.6	13.7	18.4	14.8				
Erythrocytes		5.3	6.8		5.75	6.13	6.63	5.71	6.18	5.63	6.11	6.65	5.91	6.48	6.59	5.95	5.39	5.61	6.39	6.45	4.65	6.32	5.65	5.7	5.03				
Homoglobin		9.8	14		12.9	14	14.6	13.4	12.9	12.7	13.5	14.2	12.5	13.7	14.5	13.8	13.1	12.2	13.4	13.5	10.9	12.9	11.6	12	11.2				
Hematocrit					36.6	40.1	41.5	38.1	37.5	36.4	38.9	42.6	37.6	41.1	43	40.9	38.2	35.7	40.6	41.8	32.4	39.9	36.2	37.3	35.3				
MCV		60	69		63.8	65.5	62.5	66.9	60.7	64.7	63.7	64	63.6	63.5	66.2	68.7	70.8	61.4	63.6	64.3	69.6	63.2	64	65.4	70.1				
MCH		19	23		22.4	22.9	22	23.5	20.9	22.6	22	21.4	21.2	21.1	22	23.2	24.3	21	21	20.9	23.4	20.4	20.5	21.1	22.3				
MCHC		31	35		35.1	34.9	35.2	35.2	34.5	35	34.6	33.3	33.2	33.3	33.7	33.7	34.3	34.2	33	32.3	33.6	32.3	32	32.2	31.7				
Platelets		158	650		272	396	304	414	392	149	337	275	277	221	226	153	190	174	320	353	324	264	285	303	342				
Plasma Protein					6	5.3	6.3	6.6	5.6	6.2	6	5.7	6.1	5.7	5.6	6.3	5.9	5.1	5.2	5.7	5.5	5.5	5.2	5.3					
PCV		34	43		38	40	42	38	39	34	40	42	35	39	42	40	38	37	38	40	32	39	35	37	35				
Total Leucocytes		5.1	9.7		6.9	4.9	5.4	5.5	7.9	7.6	7.8	7.5	7.3	7.3	8.6	8.2	7.7	7.6	6.6	5.3	10.7	3.9	2.8	9.9	8.1				
Heterophils (%)		25	46		28	24	33	23	27	32	33	67	41	28	38	26	38	47	34	25	46	25	30	14	30				
Lymphocytes (%)		39	68		65	69	63	73	69	61	65	28	55	69	59	72	57	49	59	65	51	73	61	79	65				
Monocytes (%)		1	9		7	6	3	2	1	7	0	3	3	3	4	2	3	4	3	5	2	2	4	6	4				
Basophils (%)		2	5		0	1	0	1	3	0	2	2	1	0	0	0	2	0	4	5	1	0	5	1	1				

All Animals Histology Data - Liver and Kidney					
ID#	Organ	Inflam- tion	Fatty Changes	Acute Tubular Necrosis	Comment
51	Kidney	0	---	0	
51	Liver	0	1	---	1
52	Kidney	0	---	0	
52	Liver	0	0	---	
53	Kidney	0	---	0	
53	Liver	0	0	---	
54	Kidney	0	---	0	
54	Liver	0	1	---	
55	Kidney	0	---	0	
55	Liver	0	0	---	
56	Kidney	0	---	0	
56	Liver	0	0	---	
57	Kidney	0	---	0	
57	Liver	0	0	---	
58	Kidney	0	---	0	
58	Liver	0	1	---	
59	Kidney	0	---	0	
59	Liver	0	1	---	
60	Kidney	0	---	0	
60	Liver	0	1	---	
61	Kidney	0	---	0	
61	Liver	0	0	---	
62	Kidney	0	---	0	
62	Liver	0	2	---	
63	Kidney	0	---	0	
63	Liver	0	1	---	
64	Kidney	0	---	0	
64	Liver	0	0	---	
65	Kidney	0	---	0	
65	Liver	2	0	---	
66	Kidney	0	---	0	
66	Liver	0	0	---	
67	Kidney	0	---	0	
67	Liver	0	0	---	
68	Kidney	0	---	0	
68	Liver	1	1	---	
69	Kidney	0	---	0	
69	Liver	0	0	---	
70	Kidney	0	---	0	
70	Liver	0	0	---	2
71	Kidney	0	---	0	3
71	Liver	0	0	---	
Comment	1	Fatty change in the liver was minimal and around the portal vein/venule regions			
	2	Mild autolytic changes			
	3	Frequent deposits of dystrophic calcification in cortical distal tubule. Significance unknown			

3 Month Sacrifice Histology Data - Bone Samples												
Rabbit ID	Slide ID	Material	Finish	Fibrosis		Inflamma- tion	Degener- ation	Fatty Infiltration	Granulomatous Inflammation	Bone Remodeling	Necrosis	Comment
				Grade	Thickness							
65	BR-1	LM1	Polished	0	0	0	0	0	0	2	0	
65	BR-2	LM1	Bead Blasted	0	0	0	0	0	0	2	0	
65	BL-1	316-L	Polished	0	0	0	0	0	0	3	0	
65	BL-2	316-L	Bead Blasted	0	0	0	0	0	0	0	0	
66	BR-1	LM1	Polished	0	0	0	0	0	0	1	0	
66	BR-2	LM1	Bead Blasted	0	0	0	0	0	0	1	0	
66	BL-1	316-L	Bead Blasted	0	0	0	0	0	0	0	0	
66	BL-2	316-L	Polished	0	0	0	0	0	0	0	0	1
67	BR-1	LM2	Bead Blasted	0	0	0	0	0	0	1	0	
67	BR-2	LM2	Polished	0	0	0	0	0	0	0	0	
67	BL-1	316-L	Polished	0	0	0	0	0	0	1	0	
67	BL-2	316-L	Bead Blasted	0	0	0	0	0	0	3	0	
68	BR-1	LM2	Polished	0	0	0	0	0	0	0	0	
68	BR-2	LM2	Bead Blasted	0	0	0	0	0	0	0	0	1
68	BL-1	316-L	Polished	0	0	0	0	0	0	0	0	
68	BL-2	316-L	Bead Blasted	0	0	0	0	0	0	0	0	1
69	BR-1	LM1	Polished	0	0	0	0	0	0	0	0	
69	BR-2	LM1	Bead Blasted	0	0	0	0	0	0	1	0	
69	BL-1	LM2	Bead Blasted	0	0	0	0	0	0	0	0	
69	BL-2	LM2	Polished	0	0	0	0	0	0	0	0	
70	BR-1	LM1	Bead Blasted	0	0	0	0	0	0	0	0	
70	BR-2	LM1	Polished	0	0	0	0	0	0	1	0	
70	BL-1	LM2	Bead Blasted	0	0	0	0	0	0	1	0	
70	BL-2	LM2	Polished	0	0	0	0	0	0	2	0	
71	BR-1	LM1	Bead Blasted	0	0	0	0	0	0	0	0	
71	BR-2	LM1	Polished	0	0	0	0	0	0	0	0	
71	BL-1	LM2	Polished	0	0	0	0	0	0	3	0	
71	BL-2	LM2	Bead Blasted	0	0	0	0	0	0	2	0	
Comment	1	Recut requested on original samples - no improved visualization on recut noted										

3 Month Sacrifice Histology Data - Muscle Samples													
Rabbit ID	Slide ID	Material	Finish	Fibrosis		Intracaps Inflamm	Degeneration	Fatty Infiltration	Extracapsular Inflammation		Granulomatous Inflammation	Necrosis	Comment
				Grade	Thickness				Grade	Distance			
65	MR-1	LM1	Polished	0	0	0	0	0	0	0	0	0	
65	MR-2	LM1	Bead Blasted	1	11	0	0	0	2	0	0	0	
65	MR-3	LM1	Polished	4	117	0	0	0	1	0	0	0	
65	MR-4	LM1	Bead Blasted	1	72	1	0	0	1	4	116	0	2
65	ML-1	316-L	Polished	4	32	0	0	0	2	0	0	0	
65	ML-2	316-L	Bead Blasted	4	8	0	0	0	1	0	0	0	
65	ML-3	316-L	Polished	2	9	0	0	0	0	0	0	0	
65	ML-4	316-L	Bead Blasted	1	3	0	0	0	1	0	0	0	
66	MR-1	LM1	Polished	4	61	0	0	0	1	0	0	0	
66	MR-2	LM1	Bead Blasted	3	33	0	0	0	0	0	0	0	
66	MR-3	LM1	Polished	2	42	0	0	0	1	0	0	0	
66	MR-4	LM1	Bead Blasted	4	153	2	0	0	2	3	85	0	
66	ML-1	316-L	Bead Blasted	0	0	0	0	0	0	0	0	0	
66	ML-2	316-L	Polished	3	26	0	0	0	0	0	0	0	
66	ML-3	316-L	Bead Blasted	4	157	0	0	1	1	0	0	0	
66	ML-4	316-L	Polished										1
67	MR-1	LM2	Bead Blasted	3	36	0	0	0	1	0	0	0	
67	MR-2	LM2	Polished	0	0	0	0	0	1	0	0	0	
67	MR-3	LM2	Bead Blasted	4	79	1	0	0	1	1	210	0	
67	MR-4	LM2	Polished	4	206	0	0	0	2	1	62	0	3
67	ML-1	316-L	Polished	1	5	0	0	0	2	0	0	0	
67	ML-2	316-L	Bead Blasted	0	0	0	0	0	1	0	0	0	
67	ML-3	316-L	Polished	2	11	0	0	0	1	0	0	0	
67	ML-4	316-L	Bead Blasted	4	85	2	0	0	1	2	105	0	
68	MR-1	LM2	Bead Blasted										1
68	MR-2	LM2	Polished	1	17	0	0	0	0	0	0	0	
68	MR-3	LM2	Bead Blasted	1	258	1	1	1	2	1	121	0	3
68	MR-4	LM2	Polished	4	291	2	0	0	2	2	161	0	4
68	ML-1	316-L	Bead Blasted	3	26	0	0	0	0	0	0	0	
68	ML-2	316-L	Polished	4	12	0	0	0	4	0	0	0	
68	ML-3	316-L	Bead Blasted	1	9	0	0	0	2	0	0	0	
68	ML-4	316-L	Polished	3	21	0	0	0	2	0	0	0	
69	MR-1	LM1	Bead Blasted	1	22	0	0	0	0	0	0	0	
69	MR-2	LM1	Polished	0	0	0	0	0	1	0	0	0	
69	MR-3	LM1	Bead Blasted	1	236	1	0	0	2	1	2000	0	5
69	MR-4	LM1	Polished	0	0	0	0	0	2	0	0	0	

[illegible]

6 Month Sacrifice Histology Data - Bone Samples												
Rabbit ID	Slide ID	Material	Finish	Fibrosis		Inflamma- tion	Degener- ation	Fatty Infiltration	Granulomatous Inflammation	Bone Remodeling	Necrosis	Comment
				Grade	Thickness							
58	BR-1	LM1	Polished		0	0	0	0	0	0	1	
58	BR-2	LM1	Bead Blasted		0	0	0	0	0	0	1	
58	BL-1	316-L	Polished		0	0	0	0	0	0	1	
58	BL-2	316-L	Bead Blasted		0	0	0	0	0	0	2	
59	BR-1	LM1	Polished		0	0	0	0	0	0	3	
59	BR-2	LM1	Bead Blasted		0	0	0	0	0	0	2	
59	BL-1	316-L	Bead Blasted		0	0	0	0	0	0	2	
59	BL-2	316-L	Polished		0	0	0	0	0	0	0	
60	BR-1	LM2	Bead Blasted		0	0	0	0	0	0	0	
60	BR-2	LM2	Polished		0	0	0	0	0	0	0	
60	BL-1	316-L	Polished		0	0	0	0	0	0	0	
60	BL-2	316-L	Bead Blasted		0	0	0	0	0	0	0	
61	BR-1	LM2	Polished		0	0	0	0	0	0	1	
61	BR-2	LM2	Bead Blasted		0	0	0	0	0	0	0	
61	BL-1	316-L	Polished		0	0	0	0	0	0	2	
61	BL-2	316-L	Bead Blasted		0	0	0	0	0	0	2	
62	BR-1	LM1	Polished		0	0	0	0	0	0	3	
62	BR-2	LM1	Bead Blasted		0	0	0	0	0	0	3	
62	BL-1	LM2	Bead Blasted		0	0	0	0	0	0	3	
62	BL-2	LM2	Polished		0	0	0	0	0	0	3	
63	BR-1	LM1	Bead Blasted		0	0	0	0	0	0	3	
63	BR-2	LM1	Polished		0	0	0	0	0	0	1	
63	BL-1	LM2	Bead Blasted		0	0	0	0	0	0	1	
63	BL-2	LM2	Polished		0	0	0	0	0	0	1	
64	BR-1	LM1	Bead Blasted		0	0	0	0	0	0	1	
64	BR-2	LM1	Polished		0	0	0	0	0	0	2	
64	BL-1	LM2	Polished		0	0	0	0	0	0	2	
64	BL-2	LM2	Bead Blasted		0	0	0	0	0	0	1	

6 Month Sacrifice Histology Data - Muscle Samples													
Rabbit ID	Slide ID	Material	Finish	Fibrosis		Intracaps Inflamm	Degeneration	Fatty Infiltration	Extracapsular Inflammation		Granulomatous Inflammation	Necrosis	Comment
				Grade	Thickness				Grade	Distance			
58	MR-1	LM1	Polished	0	0	0	0	0	1	0	0	0	0
58	MR-2	LM1	Bead Blasted	3	9	0	0	0	0	0	0	0	0
58	MR-3	LM1	Polished	3	146	1	0	0	0	0	0	0	0
58	MR-4	LM1	Bead Blasted	0	0	0	0	0	2	0	0	0	0
58	ML-1	316-L	Polished	4	8	0	0	0	1	0	0	0	0
58	ML-2	316-L	Bead Blasted	3	9	0	0	0	0	0	0	0	0
58	ML-3	316-L	Polished	2	146	0	0	2	0	0	0	0	0
58	ML-4	316-L	Bead Blasted	0	0	0	0	0	0	0	0	0	0
59	MR-1	LM1	Polished	0	0	0	0	0	0	0	0	0	0
59	MR-2	LM1	Bead Blasted	4	161	4	0	0	1	0	0	0	2
59	MR-3	LM1	Polished	0	0	0	0	0	3	0	0	0	0
59	MR-4	LM1	Bead Blasted	4	112	5	0	0	0	3	65	0	3
59	ML-1	316-L	Polished	0	0	0	0	0	1	0	0	0	0
59	ML-2	316-L	Bead Blasted	0	0	0	0	0	2	0	0	0	0
59	ML-3	316-L	Polished	4	82	0	0	0	1	0	0	0	0
59	ML-4	316-L	Bead Blasted	3	11	0	0	0	1	0	0	0	0
60	MR-1	LM2	Polished	4	152	2	0	0	2	0	0	0	4
60	MR-2	LM2	Bead Blasted	0	0	0	0	0	1	0	0	0	0
60	MR-3	LM2	Polished	2	17	0	0	0	2	0	0	0	0
60	MR-4	LM2	Bead Blasted	0	0	0	0	0	2	0	0	0	0
60	ML-1	316-L	Polished	4	131	0	0	0	3	0	0	0	0
60	ML-2	316-L	Bead Blasted	0	0	0	0	0	1	0	0	0	0
60	ML-3	316-L	Polished	3	22	0	0	0	2	0	0	0	0
60	ML-4	316-L	Bead Blasted	4	13	0	0	0	3	0	0	0	0
61	MR-1	LM2	Bead Blasted	4	219	3	0	0	3	2	43	0	5
61	MR-2	LM2	Polished	2	8	0	0	0	0	0	0	0	0
61	MR-3	LM2	Bead Blasted	0	0	0	0	0	1	0	0	0	0
61	MR-4	LM2	Polished	0	0	0	0	0	1	0	0	0	0
61	ML-1	316-L	Bead Blasted	0	0	0	0	0	2	0	0	0	0
61	ML-2	316-L	Polished	0	0	0	0	0	0	0	0	0	0
61	ML-3	316-L	Bead Blasted	3	9	0	0	0	1	1	51	0	6
61	ML-4	316-L	Polished	4	13	0	0	0	0	0	0	0	0
62	MR-1	LM1	Bead Blasted	0	0	0	0	0	0	0	0	0	0
62	MR-2	LM1	Polished	4	123	2	0	0	0	0	0	0	4
62	MR-3	LM1	Bead Blasted	4	102	2	0	0	0	2	31	0	4
62	MR-4	LM1	Polished	4	188	5	0	0	2	5	0	1	7

[illegible]

12 Month Sacrifice Histology Data - Muscle Samples													
Rabbit ID	Slide ID	Material	Finish	Fibrosis		Intracaps Inflamm	Degeneration	Fatty Infiltration	Extracapsular Inflammation		Granulomatous Inflammation	Necrosis	Comment
				Grade	Thickness				Grade	Distance			
51	ML-1	316-L	Polished	2	52	0	0	0	1	0	0	0	0
51	ML-2	316-L	Bead Blasted	0	49	0	0	0	1	0	0	0	0
51	ML-3	316-L	Polished	2	22	0	0	0	0	0	0	0	0
51	ML-4	316-L	Bead Blasted	1	11	0	0	0	0	0	0	0	0
51	MR-1	LM1	Bead Blasted	2	21	0	0	0	1	0	0	0	0
51	MR-2	LM1	Polished	1	8	0	0	0	2	0	0	0	0
51	MR-3	LM1	Bead Blasted	4	108	0	0	0	1	0	0	0	0
51	MR-4	LM1	Polished	3	17	0	0	0	1	0	0	0	0
52	ML-1	316-L	Polished	3	61	0	0	0	2	0	0	0	0
52	ML-2	316-L	Bead Blasted	3	39	0	0	0	2	0	0	0	0
52	ML-3	316-L	Polished	1	24	0	0	0	0	0	0	0	0
52	ML-4	316-L	Bead Blasted	4	116	0	0	0	1	0	0	0	2
52	MR-1	LM1	Polished	4	188	5	1	2	2	5	350	0	3
52	MR-2	LM1	Bead Blasted	3	60	2	0	0	1	2	20	0	4
52	MR-3	LM1	Polished	4	103	2	0	0	0	0	0	0	4
52	MR-4	LM1	Bead Blasted	3	26	0	0	0	1	0	0	0	0
53	ML-1	316-L	Bead Blasted	3	70	0	0	0	2	0	0	0	0
53	ML-2	316-L	Polished	0	43	0	0	0	1	0	0	0	0
53	ML-3	316-L	Bead Blasted	3	18	0	0	0	0	0	0	0	0
53	ML-4	316-L	Polished	3	26	0	0	0	0	0	0	0	0
53	MR-1	LM2	Polished	3	10	0	0	0	0	0	0	0	0
53	MR-2	LM2	Bead Blasted	1	8	0	0	0	1	0	0	0	0
53	MR-3	LM2	Polished	3	17	0	0	0	1	0	0	0	0
53	MR-4	LM2	Bead Blasted	2	18	0	0	0	1	0	0	0	0
54	ML-1	316-L	Polished	3	81	0	0	0	1	0	0	0	0
54	ML-2	316-L	Bead Blasted	4	184	1	0	0	2	0	0	0	5
54	ML-3	316-L	Polished	4	215	2	0	0	1	0	0	0	6
54	ML-4	316-L	Bead Blasted	3	22	2	0	0	1	2	0	0	7
54	MR-1	LM2	Bead Blasted	3	33	0	0	0	1	0	0	0	0
54	MR-2	LM2	Polished	3	12	0	0	0	1	0	0	0	0
54	MR-3	LM2	Bead Blasted	3	18	0	0	0	1	0	0	0	0
54	MR-4	LM2	Polished	3	19	0	0	0	0	0	0	0	0
55	ML-1	LM2	Bead Blasted	3	53	1	0	0	3	1	0	0	0
55	ML-2	LM2	Polished	3	29	0	0	0	0	0	0	0	0
55	ML-3	LM2	Bead Blasted	1	31	0	0	0	0	0	0	0	0
55	ML-4	LM2	Polished	1	31	0	0	0	0	0	0	0	0

[illegible]