

TABLE A2
Individual Animal Tumor Pathology of Male Rats in the 2-Year Feed Study of Fumonisin B₁: 0 ppm

Carcass ID Number	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2
	0	1	1	1	3	5	8	9	0	0	1	1	2	2	3	3	3	4	4	5	5	7	7	9	0		
	1	2	3	9	0	6	7	1	2	7	4	6	3	5	3	7	9	6	8	4	8	0	2	1	1		
Adrenal gland	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Leukemia monoc											X								X	X			X	X			
Pheochrom bgn, medulla										X								X			X	X				X	
Pheochrom mal, medulla																		X									
Blood vessel	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Blood vessel, aorta	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Osteoma, scapula	X																										
Bone, femur	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Bone, sternum	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Bone marrow	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Leukemia monoc					X						X				X	X	X	X	X	X			X	X	X		
Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Leukemia monoc					X																		X				
Oligodendr mal, pons																											
Brain, cerebellum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Gra cl tum bgn, meninges																											
Brain, cerebrum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Coagulating gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Epididymis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Mesothelio mal																											
Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Harderian gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Leukemia monoc					X														X		X			X	X		
Intestine large	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine large, cecum	+	M	M	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine large, colon	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Leukemia monoc									X																		
Intestine large, rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine small	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine small, duodenum	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Leukemia monoc																											
Intestine small, ileum	+	+	+	+	A	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	
Leukemia monoc																											
Intestine small, jejunum	+	+	+	+	A	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	
Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Leukemia monoc					X														X		X					X	
Liposarc														X													
Mesothelio mal															X												
Lacrimal gland	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Leukemia monoc																											
Larynx	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Leukemia monoc					X			X		X				X	X	X	X	X	X	X			X	X	X		
Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Leukemia monoc					X			X		X				X	X	X	X	X	X	X			X	X	X		
Sarcoma, metastatic, skin																											
Lung, bronchus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Lymph node	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Leukemia monoc																											
Lymph node, mandibular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Leukemia monoc					X			X		X									X	X	X	X		X	X	X	
Lymph node, mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	
Leukemia monoc					X					X					X			X	X	X	X		X	X	X		

+: Tissue examined microscopically
 A: Autolysis precludes examination

M: Missing tissue
 I: Insufficient tissue

X: Lesion present
 Blank: Not examined

TABLE A2
Individual Animal Tumor Pathology of Male Rats in the 2-Year Feed Study of Fumonisin B₁: 0 ppm

Carcass ID Number	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	Total
	1	1	5	6	6	7	1	1	1	2	2	2	2	3	6	6	8	8	0	0	5	5	5	Tissues/ Tumors
	3	4	6	0	7	8	0	1	2	1	6	7	8	2	8	9	6	7	4	5	1	2	3	
Adrenal gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	47
Leukemia monuc	X				X	X																	X	9
Pheochrom bgn, medulla										X							X	X		X	X		X	11
Pheochrom mal, medulla																								1
Blood vessel	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	47
Blood vessel, aorta	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	47
Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Osteoma, scapula																								1
Bone, femur	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Bone, sternum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	47
Bone marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	47
Leukemia monuc	X				X	X								X									X	15
Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Leukemia monuc																								2
Oligodendr mal, pons																						X		1
Brain, cerebellum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Gra cl tum bgn, meninges						X																		2
Brain, cerebrum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Coagulating gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Epididymis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Mesothelio mal										X														2
Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Eye	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	47
Harderian gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Leukemia monuc					X																			6
Intestine large	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Intestine large, cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	45
Intestine large, colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	47
Leukemia monuc																								1
Intestine large, rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Intestine small	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	47
Intestine small, duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	47
Leukemia monuc																								1
Intestine small, ileum	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	45
Leukemia monuc																								2
Intestine small, jejunum	+	+	+	A	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	44
Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Leukemia monuc							X																X	6
Liposarc																								1
Mesothelio mal																								1
Lacrimal gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	47
Leukemia monuc																							X	3
Larynx	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	46
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Leukemia monuc	X	X	X		X	X	X						X		X								X	20
Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Leukemia monuc	X				X	X	X																X	16
Sarcoma, metastatic, skin																								1
Lung, bronchus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Lymph node	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Leukemia monuc																							X	1
Lymph node, mandibular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Leukemia monuc	X		X		X	X	X																X	16
Lymph node, mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	47
Leukemia monuc	X				X	X																	X	12

TABLE A2
Individual Animal Tumor Pathology of Male Rats in the 2-Year Feed Study of Fumonisin B₁: 0 ppm

Carcass ID Number	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2		
	0	1	1	1	3	5	8	9	0	0	1	1	2	2	3	3	3	4	4	5	5	7	7	9	0
	1	2	3	9	0	6	7	1	2	7	4	6	3	5	3	7	9	6	8	4	8	0	2	1	1
Mammary gland	M	+	+	+	M	M	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+
Fibroadenoma																								X	
Mesentery								+							+		+								
Mesothelio mal															X										
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Pancreas	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Adenoma																			X					X	
Adenoma, acinar cell								X																	
Carcinoma																									
Leukemia monuc																			X						
Parathyroid gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+
Adenoma																									
Peripheral nerve	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Peripheral nerve, sciatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Pituitary gland	+	+	+	+	+	+	+	+	M	+	+	+	+	M	+	+	+	+	+	M	+	+	+	M	
Adenoma, pars distalis		X				X	X	X	X	X				X	X	X				X		X	X	X	
Leukemia monuc																			X				X	X	
Preputial gland	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	M	+	+	+	M	M	+	+	+	+
Adenoma								X																	
Prostate	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Adenoma																								X	
Salivary glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Seminal vesicle	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Leukemia monuc																			X						
Skeletal muscle	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Skeletal muscle, thigh	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Basal cel aden						X	X																	X	
Fibroma, subcut tiss														X											
Keratoacanthma									X																
Lipoma, subcut tiss																									
Papilloma squa														X											
Sarcoma, subcut tiss																			X						
Spinal cord	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+
Spinal cord, thoracic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+
Leukemia monuc																							X		
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Leukemia monuc					X	X		X		X					X		X	X	X	X		X	X	X	X
Stomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Stomach, forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Leukemia monuc																			X						
Papilloma squa																									
Stomach, glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Mesothelio mal															X										
Testes	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Adenoma, bilateral, interstit cell								X				X	X					X	X			X	X	X	
Adenoma, interstit cell									X	X	X			X	X	X					X				
Mesothelio mal																							X		
Thymus	+	+	+	M	+	+	+	M	+	M	M	+	M	M	+	+	+	+	+	+	+	+	+	+	+
Leukemia monuc					X													X	X	X		X	X	X	X
Thyroid gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Adenoma, c cell															X				X						
Carcinoma, c cell																									
Tissue NOS																							+		
Mesothelio mal, pelvic																						X			
Tongue	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Urinary bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+
Leukemia monuc																			X						
Zymbal's gland	+	+	M	M	+	+	+	+	+	M	M	M	+	M	+	+	+	+	+	+	+	+	M	+	M
Carcinoma																								X	

TABLE A2
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Carcass ID Number																				Total Tissues/ Tumors				
	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3	4	4		4	4	4	
Mammary gland	M	M	+	+	+	+	+	M	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	40
Fibroadenoma																		X						2
Mesentery										+														4
Mesothelio mal																								1
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	47
Adenoma									X				X											4
Adenoma, acinar cell							X																	2
Carcinoma	X									X													X	3
Leukemia monuc																								1
Parathyroid gland	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	46
Adenoma																							X	1
Peripheral nerve	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	47
Peripheral nerve, sciatic	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	47
Pituitary gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	43
Adenoma, pars distalis			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	30
Leukemia monuc	X						X																	5
Preputial gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	43
Adenoma																			X					2
Prostate	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Adenoma																								1
Salivary glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Seminal vesicle	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Leukemia monuc																								1
Skeletal muscle	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Skeletal muscle, thigh	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Basal cel aden																								3
Fibroma, subcut tiss						X												X						3
Keratoacanthma																							X	2
Lipoma, subcut tiss													X											1
Papilloma squa																								1
Sarcoma, subcut tiss																								1
Spinal cord	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	47
Spinal cord, thoracic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	47
Leukemia monuc																								1
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Leukemia monuc	X	X	X		X	X	X						X	X	X		X				X	X		24
Stomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Stomach, forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Leukemia monuc																						X		2
Papilloma squa							X																	1
Stomach, glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Mesothelio mal																								1
Testes	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Adenoma, bilateral, interstit cell		X	X	X		X				X	X	X	X		X					X	X	X		19
Adenoma, interstit cell	X					X			X	X				X	X		X							14
Mesothelio mal																								1
Thymus	M	+	+	+	+	+	+	M	M	+	+	M	+	+	+	+	+	+	+	M	+	+	+	37
Leukemia monuc							X																X	8
Thyroid gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Adenoma, c cell	X							X	X		X					X	X			X				9
Carcinoma, c cell																	X							1
Tissue NOS																						+		2
Mesothelio mal, pelvic																								1
Tongue	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Urinary bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	47
Leukemia monuc																								1
Zymbal's gland	+	M	M	+	M	+	+	M	+	M	+	+	+	+	+	M	+	M	+	+	+	+	+	33
Carcinoma																								1

TABLE A2
Individual Animal Tumor Pathology of Male Rats in the 2-Year Feed Study of Fumonisin B₁: 5 ppm

Carcass ID Number	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2
	5	6	6	7	7	8	8	8	9	1	2	2	3	3	5	6	7	8	9	0	1	1	2	2	2
	5	6	8	6	8	1	3	8	9	2	0	7	1	8	6	6	9	5	3	4	8	9	0	1	8
Adrenal gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Leukemia monuc			X			X														X					
Pheochrom bgn, medulla				X									X						X						
Blood vessel	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Blood vessel, aorta	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Bone, femur	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Bone, sternum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Bone marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Leukemia monuc			X	X	X		X		X				X	X	X	X	X		X						
Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Brain, cerebellum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Brain, cerebrum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Coagulating gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Epididymis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Esophagus	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	
Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Leukemia monuc, retrobulbar																			X						
Harderian gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Leukemia monuc			X																						
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Leukemia monuc																				X		X			
Intestine large	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine large, cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Leukemia monuc																				X					
Intestine large, colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Leukemia monuc																				X					
Intestine large, rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine small	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine small, duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine small, ileum	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine small, jejunum	+	+	+	+	+	+	+	+	+	+	A	+	+	A	+	+	+	+	+	+	+	+	+	+	
Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Leukemia monuc			X	X																		X			
Lacrimal gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Larynx	+	+	+	+	+	+	+	M	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hepatocr aden																				X					
Hepatocr carc					X																				
Leukemia monuc			X	X	X	X	X		X	X		X	X		X	X		X		X					
Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Alv bron aden																									
Alv bron carc																							X		
Leukemia monuc			X	X	X		X						X		X	X		X		X					
Lung, bronchus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Squam cel carc																						X			
Lymph node	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Carcinoma, metastatic, lung, mediastinal																						X			
Leukemia monuc																									
Leukemia monuc, thoracic																						X			
Lymph node, mandibular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Leukemia monuc			X	X		X			X	X			X		X	X		X		X					
Lymph node, mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Leukemia monuc			X	X	X	X	X		X	X			X		X										
Mammary gland	+	+	M	+	M	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Mesentery	+																								
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Leukemia monuc												X													

TABLE A2
Individual Animal Tumor Pathology of Male Rats in the 2-Year Feed Study of Fumonisin B₁: 5 ppm

Carcass ID Number	2	2	2	2	2	3	3	3	3	3	3	3	3	4	4	Total Tissues/ Tumors	
	5	7	7	7	7	1	1	2	2	2	2	5	5	8	0	0	
Adrenal gland																	22
Leukemia monuc																	3
Pheochrom bgn, medulla	X																4
Blood vessel	+	+															23
Blood vessel, aorta	+	+															23
Bone																	23
Bone, femur																	23
Bone, sternum																	23
Bone marrow																	23
Leukemia monuc																	12
Brain																	24
Brain, cerebellum																	24
Brain, cerebrum																	24
Coagulating gland																	22
Epididymis																	23
Esophagus																	22
Eye																	24
Leukemia monuc, retrobulbar																	1
Harderian gland																	23
Leukemia monuc																	1
Heart																	23
Leukemia monuc																	3
Intestine large																	23
Intestine large, cecum																	23
Leukemia monuc																	1
Intestine large, colon																	23
Leukemia monuc																	1
Intestine large, rectum																	23
Intestine small																	24
Intestine small, duodenum																	23
Intestine small, ileum																	23
Intestine small, jejunum																	21
Kidney																	40
Leukemia monuc																	4
Lacrimal gland																	23
Larynx																	21
Liver																	40
Hepatoclr aden																	2
Hepatoclr carc																	1
Leukemia monuc	X					X	X		X		X		X		X		20
Lung																	24
Alv bron aden																	1
Alv bron carc																	1
Leukemia monuc																	9
Lung, bronchus																	24
Squam cel carc																	1
Lymph node																	24
Carcinoma, metastatic, lung, mediastinal																	1
Leukemia monuc	X																2
Leukemia monuc, thoracic																	1
Lymph node, mandibular																	23
Leukemia monuc	X																11
Lymph node, mesenteric																	23
Leukemia monuc	X																11
Mammary gland																	20
Mesentery																	3
Nose																	23
Leukemia monuc																	1

TABLE A2
Individual Animal Tumor Pathology of Male Rats in the 2-Year Feed Study of Fumonisin B₁: 5 ppm

Carcass ID Number	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2
	5	6	6	7	7	8	8	8	9	1	2	2	3	3	5	6	7	8	9	0	1	1	2	2	2
	5	6	8	6	8	1	3	8	9	2	0	7	1	8	6	6	9	5	3	4	8	9	0	1	8
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Carcinoma																									
Leukemia monuc																									
Parathyroid gland	+	+	+	+	+	+	M	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Peripheral nerve	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Peripheral nerve, sciatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Pituitary gland	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Adenoma, pars distalis						X	X	X				X	X	X		X	X	X	X		X	X			
Carcinoma, pars distalis																									
Leukemia monuc			X									X					X								
Preputial gland	+	+	M	+	M	M	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+
Adenoma									X																X
Prostate	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Salivary glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Seminal vesicle	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Skeletal muscle	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Skeletal muscle, thigh	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Fibroma, subcut tiss																									+
Keratoacanthma, multiple																									X
Lipoma, subcut tiss																									
Trichoepithel																									X
Spinal cord	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Spinal cord, thoracic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Leukemia monuc		X	X	X	X	X			X	X		X	X	X	X	X	X	X		X					+
Liposarc																									
Stomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Stomach, forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Papilloma squa																									X
Stomach, glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Testes	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Adenoma, bilateral, interstit cell				X	X	X			X	X				X					X	X		X	X	X	X
Adenoma, interstit cell								X											X	X		X	X	X	X
Thymus	M	+	M	+	M	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+
Leukemia monuc		X	X	X	X														X	X					
Thyroid gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Adenoma, c cell				X	X																				
Carcinoma, c cell								X																	
Carcinoma, follicular cel																									
Tongue	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Urinary bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Zymbal's gland	+	M	+	+	+	M	+	+	+	+	+	M	+	+	M	+	+	+	+	+	+	+	+	+	+
Carcinoma																									

TABLE A2
Individual Animal Tumor Pathology of Male Rats in the 2-Year Feed Study of Fumonisin B₁: 5 ppm

Carcass ID Number	2	2	2	2	2	3	3	3	3	3	3	3	3	4	4	Total Tissues/ Tumors
Pancreas																24
Carcinoma	X															2
Leukemia monuc																1
Parathyroid gland																21
Peripheral nerve																23
Peripheral nerve, sciatic																23
Pituitary gland																28
Adenoma, pars distalis	X	X		X							X		X			18
Carcinoma, pars distalis									X							1
Leukemia monuc																3
Preputial gland																19
Adenoma																2
Prostate																22
Salivary glands																23
Seminal vesicle																23
Skeletal muscle																23
Skeletal muscle, thigh																23
Skin																27
Fibroma, subcut tiss																3
Keratoacanthma, multiple																1
Lipoma, subcut tiss																1
Trichoepithel																1
Spinal cord																23
Spinal cord, thoracic																23
Spleen																29
Leukemia monuc	X			X	X	X	X							X	X	20
Liposarc															X	1
Stomach																23
Stomach, forestomach																23
Papilloma squa																1
Stomach, glandular																23
Testes																39
Adenoma, bilateral, interstit cell	X	X	X	X	X		X	X	X	X	X	X	X	X	X	24
Adenoma, interstit cell																6
Thymus																19
Leukemia monuc															X	6
Thyroid gland																24
Adenoma, c cell																2
Carcinoma, c cell																1
Carcinoma, follicular cel															X	1
Tongue																23
Trachea																23
Urinary bladder																22
Zymbal's gland																19
Carcinoma															X	1

TABLE A2
Individual Animal Tumor Pathology of Male Rats in the 2-Year Feed Study of Fumonisin B₁: 15 ppm

Carcass ID Number	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2								
	3	3	3	4	5	5	5	5	8	1	2	4	5	6	8	8	9	9	9	9	9	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2						
	4	6	7	6	0	1	4	9	0	7	6	7	0	7	6	7	0	2	4	9	2	3	4	5	7																			
Adrenal gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+															+	+					
Leukemia monuc				X										X					X																				X					
Pheochrom bgn, medulla							X												X	X			X																					
Pheochrom mal, medulla																																									X			
Blood vessel	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			
Blood vessel, aorta	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			
Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			
Sarcoma, synovial tiss							X																																					
Bone, femur	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			
Bone, sternum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			
Bone marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			
Leukemia monuc				X					X	X	X				X	X	X		X	X	X																				X			
Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			
Leukemia monuc																X																												
Brain, cerebellum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Brain, cerebrum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Astrocyto mal																																												
Coagulating gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Epididymis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			
Leukemia monuc																X																												
Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Harderian gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Carcinoma																																												
Leukemia monuc																X																												
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Leukemia monuc											X	X			X	X			X	X																								
Intestine large	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Intestine large, cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Leukemia monuc																																												
Intestine large, colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine large, rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine small	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine small, duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Leukemia monuc				X																																								
Intestine small, ileum	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Leukemia monuc																X																												
Intestine small, jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Leukemia monuc																X																												
Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Leukemia monuc				X						X	X				X					X																								
Lacrimal gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Leukemia monuc																X																												
Larynx	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Carcinoma, metastatic, thyroid gland									X																																			
Hepatocl aden																																												
Hepatocl carc																																												
Leukemia monuc				X					X	X	X				X	X	X		X	X	X																						X	
Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Carcinoma, metastatic, thyroid gland									X																																			
Leukemia monuc				X						X	X				X	X			X	X																							X	
Lung, bronchus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Lymph node	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Leukemia monuc, axillary																X																												
Leukemia monuc, deep cervical																																												

TABLE A2
Individual Animal Tumor Pathology of Male Rats in the 2-Year Feed Study of Fumonisin B₁: 15 ppm

Carcass ID Number	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4	Total Tissues/ Tumors		
	5	7	8	8	8	0	2	3	5	5	7	7	8	8	8	8	0	0	1	1	1	1	5	5	9		9	
Adrenal gland	+					+																				25		
Leukemia monuc						X																					5	
Pheochrom bgn, medulla						X																					6	
Pheochrom mal, medulla																											1	
Blood vessel	+					+																					23	
Blood vessel, aorta	+					+																					23	
Bone	+					+																					23	
Sarcoma, synovial tiss																											1	
Bone, femur	+					+																					23	
Bone, sternum	+					+																					23	
Bone marrow	+					+																					23	
Leukemia monuc						X																					10	
Brain	+					+																					23	
Leukemia monuc						X																					4	
Brain, cerebellum	+					+																					23	
Brain, cerebrum	+					+																					23	
Astrocyto mal																											1	
Coagulating gland	+					+																					23	
Epididymis	+					+																					22	
Leukemia monuc																											1	
Esophagus	+					+																					23	
Eye	+	+				+																+					26	
Harderian gland	+					+																					23	
Carcinoma																												1
Leukemia monuc						X																					1	
Heart	+					+																					24	
Leukemia monuc						X																					6	
Intestine large	+					+																					23	
Intestine large, cecum	+					+																					23	
Leukemia monuc																											1	
Intestine large, colon	+					+																					23	
Intestine large, rectum	+					+																					23	
Intestine small	+					+																					23	
Intestine small, duodenum	+					+																					23	
Leukemia monuc																											1	
Intestine small, ileum	+					+																					22	
Leukemia monuc																											1	
Intestine small, jejunum	+					A																					21	
Leukemia monuc																											1	
Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48	
Leukemia monuc						X										X						X	X				9	
Lacrimal gland	+					+																					22	
Leukemia monuc																											1	
Larynx	+					+																					22	
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48	
Carcinoma, metastatic, thyroid gland																												1
Hepatochr aden			X	X																							2	
Hepatochr carc	X																										1	
Leukemia monuc						X		X					X	X	X						X	X			X		17	
Lung	+					+																					23	
Carcinoma, metastatic, thyroid gland																											1	
Leukemia monuc						X																					8	
Lung, bronchus	+					+																					23	
Lymph node	+					+										M	+	+				+		+			27	
Leukemia monuc, axillary																											1	
Leukemia monuc, deep cervical																											1	
Lymph node, mandibular	+					+																					26	
Leukemia monuc																										X	7	

TABLE A2
Individual Animal Tumor Pathology of Male Rats in the 2-Year Feed Study of Fumonisin B₁: 15 ppm

Carcass ID Number	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	
	3	3	3	4	5	5	5	5	8	1	2	4	5	6	8	8	9	9	9	9	9	2	2	2	2	5
	4	6	7	6	0	1	4	9	0	7	6	7	0	7	6	7	0	2	4	9	2	3	4	5	7	
Lymph node, mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Leukemia monuc			X						X	X	X				X	X	X									
Mammary gland	+	+	+	+	+	+	+	M	+	+	+	+	M	+	+	+	+	+	M	+	+	+	+	+	+	
Carcinoma																										
Mesentery																					+					
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Adenoma, acinar cell															X								X			
Carcinoma																							X		X	
Leukemia monuc				X										X												
Parathyroid gland	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Peripheral nerve	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Peripheral nerve, sciatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Pituitary gland	+	+	M	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Adenoma, pars distalis	X			X	X			X	X	X		X		X		X						X			X	
Leukemia monuc														X												
Preputial gland	+	+	+	M	+	+	M	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	
Adenoma	X																									
Carcinoma			X																							
Prostate	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Salivary glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Seminal vesicle	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Skeletal muscle	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Fibrosarc																									X	
Skeletal muscle, thigh	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Adenoma, sebaceous gland																							X			
Fibroma, subcut tiss																									X	
Hemangioma, subcut tiss																							X			
Keratoacanthma																										
Lipoma, subcut tiss																										
Sarcoma, subcut tiss																										
Trichoepithel																										
Spinal cord	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Spinal cord, thoracic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Leukemia monuc																										
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Leukemia monuc			X						X	X	X				X	X	X	X	X	X					X	
Stomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Stomach, forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Leukemia monuc															X											
Stomach, glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Testes	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Adenoma, bilateral, interstit cell																			X	X	X	X	X	X	X	
Adenoma, interstit cell			X							X										X	X				X	
Thymus	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	M	+					+	
Leukemia monuc			X							X	X				X											
Thyroid gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Adenoma, c cell			X																							
Carcinoma, c cell									X																	
Leukemia monuc														X												
Tissue NOS																										
Chordoma																								+	+	
Tongue	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Leukemia monuc														X											+	
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Urinary bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Zymbal's gland	+	+	+	+	M	M	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	M	
Carcinoma								X																		

TABLE A2
Individual Animal Tumor Pathology of Male Rats in the 2-Year Feed Study of Fumonisin B₁: 15 ppm

Carcass ID Number	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4	Total
	5	7	8	8	8	0	2	3	5	5	7	7	8	8	8	8	0	0	1	1	1	1	5	5		Tissues/ Tumors
	9	9	0	1	2	5	9	0	1	2	8	9	0	1	8	8	9	0	1	2	3	4	5			
Lymph node, mesenteric																									23	
Leukemia monuc																									8	
Mammary gland																									24	
Carcinoma																									1	
Mesentery																									3	
Nose																									23	
Pancreas																									25	
Adenoma, acinar cell																									2	
Carcinoma																									2	
Leukemia monuc																									2	
Parathyroid gland																									22	
Peripheral nerve																									23	
Peripheral nerve, sciatic																									23	
Pituitary gland																									33	
Adenoma, pars distalis																									23	
Leukemia monuc																									1	
Preputial gland																									20	
Adenoma																									1	
Carcinoma																									1	
Prostate																									23	
Salivary glands																									23	
Seminal vesicle																									24	
Skeletal muscle																									24	
Fibrosarc																									1	
Skeletal muscle, thigh																									24	
Skin																									28	
Adenoma, sebaceous gland																									1	
Fibroma, subcut tiss																									2	
Hemangioma, subcut tiss																									1	
Keratoacanthma																									3	
Lipoma, subcut tiss																									1	
Sarcoma, subcut tiss																									1	
Trichoepithel																									1	
Spinal cord																									23	
Spinal cord, thoracic																									23	
Leukemia monuc																									1	
Spleen																									33	
Leukemia monuc																									20	
Stomach																									23	
Stomach, forestomach																									23	
Leukemia monuc																									1	
Stomach, glandular																									23	
Testes																									46	
Adenoma, bilateral, interstit cell																									20	
Adenoma, interstit cell																									14	
Thymus																									21	
Leukemia monuc																									5	
Thyroid gland																									25	
Adenoma, c cell																									4	
Carcinoma, c cell																									2	
Leukemia monuc																									1	
Tissue NOS																									2	
Chordoma																									1	
Tongue																									23	
Leukemia monuc																									1	
Trachea																									23	
Urinary bladder																									23	
Zymbal's gland																									17	
Carcinoma																									1	

TABLE A2
Individual Animal Tumor Pathology of Male Rats in the 2-Year Feed Study of Fumonisin B₁: 50 ppm

Carcass ID Number	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	
	0	1	1	1	3	4	4	7	8	9	9	9	0	1	2	2	3	3	4	5	7	7	8	8
	6	4	5	6	2	7	8	2	4	3	4	8	6	3	4	8	0	4	4	3	1	4	1	2
Adrenal gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Adenoma, cortex							X																	
Leukemia monuc								X																
Pheochrom bgn, medulla																								
Blood vessel	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Blood vessel, aorta	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Bone, femur	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Bone, sternum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Bone marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Leukemia monuc							X			X	X	X		X	X									X
Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Leukemia monuc										X														
Brain, cerebellum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Brain, cerebrum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Oligodendr mal																								
Coagulating gland	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Ear																								
Keratoacanthma																								
Epididymis	+	+	+	+	+	+	M	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Eye	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Harderian gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Leukemia monuc										X	X													
Schwannoma mal																	X							
Intestine large	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine large, cecum	A	M	M	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A
Intestine large, colon	A	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine large, rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine small	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine small, duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Mesothelio mal								X																
Intestine small, ileum	A	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	A
Intestine small, jejunum	A	+	+	+	+	+	+	A	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A
Carcinoma					X																			
Sarcoma																		X						
Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Adenoma, bilateral, renal tubule																								
Adenoma, renal tubule																								
Carcinoma, bilateral, renal tubule																								
Carcinoma, renal tubule																								X
Leukemia monuc										X	X	X												
Nephroblastoma	X																							
Lacrimal gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Leukemia monuc										X														
Larynx	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Leukemia monuc								X		X	X	X		X	X									X
Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Alv bron aden																								
Carcinoma, metastatic, kidney																								X
Leukemia monuc								X		X	X	X		X	X									X
Lung, bronchus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Squam cel carc						X																		
Lymph node	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Lymph node, mandibular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Leukemia monuc										X	X	X		X										X

TABLE A2
Individual Animal Tumor Pathology of Male Rats in the 2-Year Feed Study of Fumonisin B₁: 50 ppm

Carcass ID Number	1	1	1	2	2	2	2	2	2	2	2	3	3	3	3	3	4	4	4	4	4	4	Total Tissues/ Tumors
	8	9	9	0	1	1	1	6	7	7	7	7	0	2	3	3	7	1	1	5	5	5	
Adrenal gland																							31
Adenoma, cortex																							1
Leukemia monuc	X		X																				3
Pheochrom bgn, medulla	X		X																		X		3
Blood vessel																							30
Blood vessel, aorta																							30
Bone																							30
Bone, femur																							29
Bone, sternum																							30
Bone marrow																							30
Leukemia monuc	X		X																				10
Brain																							31
Leukemia monuc	X																						2
Brain, cerebellum																							31
Brain, cerebrum																							31
Oligodendr mal																							1
Coagulating gland																							29
Ear																							1
Keratoacanthma																							1
Epididymis																							28
Esophagus																							30
Eye																							35
Harderian gland																							30
Heart																							30
Leukemia monuc	X																						3
Schwannoma mal																							1
Intestine large																							30
Intestine large, cecum																							25
Intestine large, colon																							28
Intestine large, rectum																							30
Intestine small																							30
Intestine small, duodenum																							30
Mesothelio mal																							1
Intestine small, ileum																							26
Intestine small, jejunum																							26
Carcinoma																							1
Sarcoma																							1
Kidney																							48
Adenoma, bilateral, renal tubule																							1
Adenoma, renal tubule																							1
Carcinoma, bilateral, renal tubule																							1
Carcinoma, renal tubule																							6
Leukemia monuc	X																						4
Nephroblastoma																							1
Lacrimal gland																							30
Leukemia monuc																							1
Larynx																							29
Liver																							48
Leukemia monuc	X		X																				18
Lung																							32
Alv bron aden																							1
Carcinoma, metastatic, kidney																							2
Leukemia monuc	X																						9
Lung, bronchus																							31
Squam cel carc																							1
Lymph node																							33
Lymph node, mandibular																							32
Leukemia monuc	X		X																				8

TABLE A2
Individual Animal Tumor Pathology of Male Rats in the 2-Year Feed Study of Fumonisin B₁: 50 ppm

Carcass ID Number	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1
	0	1	1	1	3	4	4	7	8	9	9	9	0	1	2	2	3	3	4	5	7	7	8	8
	6	4	5	6	2	7	8	2	4	3	4	8	6	3	4	8	0	4	4	3	1	4	1	2
Lymph node, mesenteric	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Leukemia monuc							X			X	X	X		X	X									
Mammary gland	+	+	+	+	M	+	M	M	+	+	+	+	+	+	+	M	+	+	+	M	+	+	+	+
Mesentery																								
Fibroma																								
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Adenoma								X																X
Adenoma, acinar cell														X								X		
Leukemia monuc													X											
Mesothelio mal										X														
Parathyroid gland	+	+	+	+	+	M	M	+	+	M	+	+	+	+	+	+	+	+	+	M	+	+	+	+
Peripheral nerve	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Peripheral nerve, sciatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Pituitary gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+
Adenoma, pars distalis						X	X	X		X			X			X			X		X	X	X	X
Adenoma, pars intermed														X										
Leukemia monuc								X																
Preputial gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M
Adenoma				X													X							
Prostate	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Adenoma																								
Leukemia monuc																								
Salivary glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Leukemia monuc												X												
Seminal vesicle	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Skeletal muscle	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Skeletal muscle, thigh	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Basal cel aden																								
Fibroma, subcut tiss																	X							
Hemangioma																								X
Histio sarc, subcut tiss																		X						
Lipoma, subcut tiss																								
Papilloma squa, tail																								X
Spinal cord	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Spinal cord, thoracic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Leukemia monuc								X		X	X	X		X	X									X
Mesothelio mal										X														
Stomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Stomach, forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Leukemia monuc												X												
Stomach, glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Mesothelio mal												X												
Testes	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Adenoma, bilateral, interstit cell									X	X	X	X		X	X		X	X		X	X			
Adenoma, interstit cell							X					X		X	X		X						X	X
Mesothelio mal										X														
Thymus	M	+	+	+	+	+	+	+	M	+	+	+	M	+	+	M	+	+	+	M	M	+	+	+
Leukemia monuc							X				X	X												
Thyroid gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A
Adenoma, c cell			X									X												
Carcinoma, c cell																								
Leukemia monuc												X												
Tissue NOS												+												
Mesothelio mal, scrotal											X													

TABLE A2
Individual Animal Tumor Pathology of Male Rats in the 2-Year Feed Study of Fumonisin B₁: 50 ppm

Carcass ID Number	1	1	1	2	2	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3	4	4	4	4	4	4	4	4	Total Tissues/ Tumors
	8	9	9	0	1	1	1	6	7	7	7	7	7	7	0	2	3	3	3	7	1	1	5	5	5	5	5	5	
Lymph node, mesenteric																												30	
Leukemia monuc	X		X					X																				9	
Mammary gland			M																									24	
Mesentery																												4	
Fibroma																										X		1	
Nose																												29	
Pancreas																												30	
Adenoma																												2	
Adenoma, acinar cell																												2	
Leukemia monuc																												1	
Mesothelio mal																												1	
Parathyroid gland																												26	
Peripheral nerve																												30	
Peripheral nerve, sciatic																												30	
Pituitary gland																												33	
Adenoma, pars distalis																												18	
Adenoma, pars intermed																												1	
Leukemia monuc																												1	
Preputial gland																												30	
Adenoma																												2	
Prostate																												30	
Adenoma																												1	
Leukemia monuc																												2	
Salivary glands																												30	
Leukemia monuc																												1	
Seminal vesicle																												30	
Skeletal muscle																												30	
Skeletal muscle, thigh																												30	
Skin																												32	
Basal cel aden																												1	
Fibroma, subcut tiss																												2	
Hemangioma																												1	
Histio sarc, subcut tiss																												1	
Lipoma, subcut tiss																												1	
Papilloma squa, tail																												1	
Spinal cord																												30	
Spinal cord, thoracic																												30	
Spleen																												41	
Leukemia monuc																												18	
Mesothelio mal																												1	
Stomach																												30	
Leukemia monuc																												1	
Stomach, forestomach																												30	
Leukemia monuc																												1	
Stomach, glandular																												30	
Mesothelio mal																												1	
Testes																												46	
Adenoma, bilateral, interstit cell																												22	
Adenoma, interstit cell																												13	
Mesothelio mal																												2	
Thymus																												24	
Leukemia monuc																												4	
Thyroid gland																												31	
Adenoma, c cell																												2	
Carcinoma, c cell																												2	
Leukemia monuc																												1	
Tissue NOS																												1	
Mesothelio mal, scrotal																												1	

TABLE A2
Individual Animal Tumor Pathology of Male Rats in the 2-Year Feed Study of Fumonisin B₁: 50 ppm

Carcass ID Number	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Carcass ID Number	0	1	1	1	3	4	4	7	8	9	9	9	0	1	2	2	3	3	4	5	7	7	8	8	8	8	8
Carcass ID Number	6	4	5	6	2	7	8	2	4	3	4	8	6	3	4	8	0	4	4	3	1	4	1	2	4	4	
Tongue	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Ureter								M																			
Urinary bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Leukemia monuc														X													
Mesothelio mal											X																
Zymbal's gland	M	+	M	M	+	+	+	+	+	+	+	M	+	M	+	M	+	+	+	+	+	M	+	M	+	+	+
Carcinoma													X														

TABLE A2
Individual Animal Tumor Pathology of Male Rats in the 2-Year Feed Study of Fumonisin B₁: 150 ppm

Carcass ID Number	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	
	2	2	2	2	3	6	6	8	8	0	1	3	4	6	7	8	9	0	1	1	1	6	6	8	8	
	0	1	2	3	3	0	9	5	6	4	5	2	0	0	8	3	5	5	5	5	6	7	5	9	3	4
Adrenal gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Adenoma, cortex									X																	
Carcinoma, cortex													X													
Leukemia monuc												X						X	X							
Pheochrom bgn, bilateral, medulla																										
Pheochrom bgn, medulla							X			X								X								X
Blood vessel	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+
Blood vessel, aorta	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+
Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Bone, femur	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Bone, sternum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Bone marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Leukemia monuc					X	X				X				X	X	X					X					
Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Leukemia monuc, medulla					X																					
Brain, cerebellum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Brain, cerebrum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Coagulating gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Epididymis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Mesothelio mal												X														
Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Harderian gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Leukemia monuc					X	X				X								X								
Intestine large	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine large, cecum	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine large, colon	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine large, rectum	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine small	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine small, duodenum	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine small, ileum	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine small, jejunum	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Adenoma, renal tubule										X																
Carcinoma, renal tubule																				X			X		X	X
Leukemia monuc												X						X								
Mesothelio mal												X														
Lacrimal gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Larynx	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Fib histiocyct, metastatic, skin										X																
Hepatoclr aden																										
Histio sarc, metastatic, skin																	X									
Leukemia monuc					X	X				X						X	X	X				X				
Mesothelio mal												X														
Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Carcinoma, metastatic, adrenal gland														X												
Carcinoma, metastatic, kidney									X										X							
Fib histiocyct, metastatic, skin										X																
Histio sarc, metastatic, skin																X										
Leukemia monuc					X	X				X						X	X									
Lung, bronchus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Squam cel carc					X																					
Lymph node	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Carcinoma, metastatic, kidney									X																	
Carcinoma, metastatic, kidney, mediastinal																										
Carcinoma, metastatic, kidney, renal																										

TABLE A2
Individual Animal Tumor Pathology of Male Rats in the 2-Year Feed Study of Fumonisin B₁: 150 ppm

Carcass ID Number	2	2	3	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4	Total Tissues/ Tumors
	8	8	0	0	1	3	5	5	5	6	8	8	8	1	1	1	1	2	2	2	6	6	6	
Adrenal gland	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	47	
Adenoma, cortex														X									2	
Carcinoma, cortex																							1	
Leukemia monuc																						X	4	
Pheochrom bgn, bilateral, medulla				X														X					2	
Pheochrom bgn, medulla							X	X															6	
Blood vessel	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	47	
Blood vessel, aorta	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	47	
Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48	
Bone, femur	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48	
Bone, sternum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48	
Bone marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48	
Leukemia monuc				X					X									X					10	
Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48	
Leukemia monuc, medulla																							1	
Brain, cerebellum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	47	
Brain, cerebrum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48	
Coagulating gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48	
Epididymis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	47	
Mesothelio mal				X																	X		3	
Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48	
Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48	
Harderian gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48	
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48	
Leukemia monuc																							4	
Intestine large	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	47	
Intestine large, cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	47	
Intestine large, colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	47	
Intestine large, rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	47	
Intestine small	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	47	
Intestine small, duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	47	
Intestine small, ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	47	
Intestine small, jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	47	
Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48	
Adenoma, renal tubule													X	X									5	
Carcinoma, renal tubule									X	X				X	X	X						X	10	
Leukemia monuc				X																			3	
Mesothelio mal																							1	
Lacrimal gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48	
Larynx	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	46	
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48	
Fib histiocy, metastatic, skin																							1	
Hepatocl aden																			X				1	
Histio sarc, metastatic, skin																							1	
Leukemia monuc				X			X		X									X			X		12	
Mesothelio mal																							1	
Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48	
Carcinoma, metastatic, adrenal gland																							1	
Carcinoma, metastatic, kidney															X	X							4	
Fib histiocy, metastatic, skin																							1	
Histio sarc, metastatic, skin																							1	
Leukemia monuc				X			X																7	
Lung, bronchus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48	
Squam cel carc																							1	
Lymph node	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48	
Carcinoma, metastatic, kidney																							1	
Carcinoma, metastatic, kidney, mediastinal																		X					1	
Carcinoma, metastatic, kidney, renal																		X					1	

TABLE A2
Individual Animal Tumor Pathology of Male Rats in the 2-Year Feed Study of Fumonisin B₁: 150 ppm

Carcass ID Number	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2
	2	2	2	2	3	6	6	8	8	0	1	3	4	6	7	8	9	0	1	1	1	6	6	8	8	8
	0	1	2	3	3	0	9	5	6	4	5	2	0	0	8	3	5	5	5	5	6	7	5	9	3	4
Lymph node, mandibular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Leukemia monuc					X	X				X			X	X	X							X				
Lymph node, mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Leukemia monuc					X					X						X	X					X				
Mammary gland	+	+	+	+	+	M	+	+	M	M	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Fibroadenoma																								X		
Mesentery																										
Carcinoma, metastatic, kidney																										
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Adenoma										X																
Adenoma, acinar cell																						X				
Adenoma, duct												X														
Carcinoma																										
Carcinoma, metastatic, kidney																						X				
Histio sarc, metastatic, skin																										
Leukemia monuc													X											X		
Mesothelio mal													X													
Mixd tumor bgn																										
Parathyroid gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+
Peripheral nerve	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Peripheral nerve, sciatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Pituitary gland	+	+	+	+	M	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Adenoma, pars distalis		X				X				X								X	X	X	X		X		X	
Carcinoma, pars distalis																										
Leukemia monuc																										
Preputial gland	+	+	+	+	M	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Adenoma																						X				
Carcinoma									X																	
Prostate	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Adenoma																										
Histio sarc, metastatic, skin																						X				
Salivary glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Seminal vesicle	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Mesothelio mal														X												
Skeletal muscle	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Mesothelio mal, abdominal														X												
Skeletal muscle, thigh	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Basal cel aden																						X				
Fib histiocy, subcut tiss											X															
Histio sarc																						X				
Histio sarc, subcut tiss																						X				
Keratoacanthma								X																		
Lipoma, subcut tiss																									X	
Trichoepithel																										
Spinal cord	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Spinal cord, thoracic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Carcinoma, metastatic, kidney																										
Histio sarc, metastatic, skin																						X				
Leukemia monuc						X	X				X			X	X	X	X						X			
Mesothelio mal													X													
Stomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Stomach, forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Leukemia monuc												X														
Stomach, glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

TABLE A2
Individual Animal Tumor Pathology of Male Rats in the 2-Year Feed Study of Fumonisin B₁: 150 ppm

Carcass ID Number																					Total	
	2	2	3	3	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4
Lymph node, mandibular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Leukemia monuc			X															X			X	10
Lymph node, mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Leukemia monuc			X																		X	7
Mammary gland	+	+	+	+	+	+	+	+	M	+	+	+	M	+	+	+	+	+	+	+	+	42
Fibroadenoma	X																			X	X	4
Mesentery		+		+										+								4
Carcinoma, metastatic, kidney														X								1
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Adenoma																				X	X	3
Adenoma, acinar cell								X														2
Adenoma, duct																						1
Carcinoma											X									X		3
Carcinoma, metastatic, kidney														X								1
Histio sarc, metastatic, skin															X							1
Leukemia monuc																						2
Mesothelio mal																						1
Mixd tumor bgn															X							1
Parathyroid gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	47
Peripheral nerve	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Peripheral nerve, sciatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Pituitary gland	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	45
Adenoma, pars distalis	X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	X	X	24
Carcinoma, pars distalis								X														1
Leukemia monuc																		X				1
Preputial gland	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	M	+	+	+	44
Adenoma				X																		2
Carcinoma																						1
Prostate	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Adenoma																						1
Histio sarc, metastatic, skin																						1
Salivary glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Seminal vesicle	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Mesothelio mal																						1
Skeletal muscle	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Mesothelio mal, abdominal																						1
Skeletal muscle, thigh	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Basal cel aden														X	X							3
Fib histiocy, subcut tiss																						1
Histio sarc																						1
Histio sarc, subcut tiss																						1
Keratoacanthma																						1
Lipoma, subcut tiss																						1
Trichoepithel														X								1
Spinal cord	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Spinal cord, thoracic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Carcinoma, metastatic, kidney																	X					1
Histio sarc, metastatic, skin																						1
Leukemia monuc			X		X		X									X	X	X	X	X	X	16
Mesothelio mal																						1
Stomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Stomach, forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Leukemia monuc																						1
Stomach, glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48

TABLE A2
Individual Animal Tumor Pathology of Male Rats in the 2-Year Feed Study of Fumonisin B₁: 150 ppm

Carcass ID Number	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	
	2	2	2	2	3	6	6	8	8	0	1	3	4	6	7	8	9	0	1	1	1	6	6	8	8	
	0	1	2	3	3	0	9	5	6	4	5	2	0	0	8	3	5	5	5	5	6	7	5	9	3	4
Testes	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Adenoma, bilateral, interstit cell										X	X	X	X			X	X				X		X	X	X	
Adenoma, interstit cell														X	X			X	X							
Mesothelio mal													X													
Thymus	+	+	+	+	M	+	+	+	+	M	+	+	+	M	+	+	M	+	M	+	+	+	+	+	+	
Leukemia monuc											X						X									
Thyroid gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Adenoma, c cell																	X								X	
Adenoma, multiple, c cell												X														
Tissue NOS																	+									
Tongue	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Urinary bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Mesothelio mal																	X									
Zymbal's gland	+	M	+	+	+	+	M	M	+	+	M	+	+	M	+	+	+	M	+	+	+	M	+	+	+	

TABLE A2
Individual Animal Tumor Pathology of Male Rats in the 2-Year Feed Study of Fumonisin B₁: 150 ppm

Carcass ID Number	2	2	3	3	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	Total Tissues/ Tumors
Testes	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48	
Adenoma, bilateral, interstit cell	X		X	X	X	X		X	X		X	X	X		X	X	X	X	X																		26
Adenoma, interstit cell			X					X			X				X							X	X	X												11	
Mesothelio mal					X													X			X															4	
Thymus	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	41	
Leukemia monuc				X																																3	
Thyroid gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48	
Adenoma, c cell			X				X	X							X	X			X		X		X													10	
Adenoma, multiple, c cell																																					1
Tissue NOS																																					1
Tongue	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48	
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Urinary bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Mesothelio mal																																					1
Zymbal's gland	+	+	+	+		M	M	M	M	M	M	M	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	33	