

HARLAN ANIMAL COLONIES
HEALTH EVALUATION SUMMARY

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CONTRACT N01-AG-5-0006

RATS Barrier 208A

ANIMAL FACILITY	STRAIN	NO./SEX	AGE	TESTING LABORATORY/DATES
Location: Frederick, MD Barrier/Building: 208A Ship Date: 4/13/08	BN/BiRijNNiaHsd	2M/3F	17 months	University of Missouri UMRADIL, Columbia, MO Receipt Date: 4/14/08 Report Date: 5/1/08
	F344 x BN F1	3M/2F	17 months	

EVALUATION

NIA rats submitted for this health monitoring were obtained from NIA-NIH aging colonies maintained in a barrier by Harlan Sprague Dawley, Inc. All rats examined were considered to be in a good state of health.

SEROLOGY

Agent	Assay	No. Pos./ No. Tested	Comments
Sendai	MFI	0/10	
RCV/SDAV	MFI	0/10	
Parvoviruses NS-1	MFI	0/10	
RMV	MFI	0/10	
RPV	MFI	0/10	
KRV	MFI	0/10	
H-1	MFI	0/10	
PVM	MFI	0/10	
<i>M. pulmonis</i>	MFI	0/10	
Reo 3	MFI	0/3	
TMEV-like virus	MFI	0/3	
MAD	MFI	0/3	
LCM	MFI	0/3	
<i>E. cuniculli</i>	MFI	0/3	
Hantaan	MFI	0/3	
Tyzzers	MFI	0/3	

BACTERIOLOGY

Agent	No. Pos/No. Tested	Comments
<i>Salmonella spp.</i>	0/10	Nasopharynx/cecum cultures The bacteria isolated from the nasopharynx and cecum are opportunistic or normal flora of the rat.
<i>Pasteurella pneumotropica</i>	0/10	
<i>Pseudomonas aeruginosa</i>	0/3	
<i>Corynebacterium kutscheri</i>	0/10	
<i>Klebsiella pneumonia</i>	0/3	
<i>Klebsiella oxytoca</i>	0/3	
<i>Staphylococcus aureus</i>	1/3	
<i>Streptococcus pneumoniae</i>	0/10	

PCR

	Results	Comments
	No. Tested/No. Pos.	
<i>Mycoplasma pulmonis</i>	0/10	
<i>Helicobacter spp</i>	0/10	

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RATS Barrier 208A

PARASITOLOGY		
Type and Test	Results	Comments
Ectoparasites Test: Direct pelage	No. Pos./No. Tested 0/10	External parasites were not observed in any rat.
Endoparasites Test(s): Direct, Gross, and Microscopic (intestine & bladder)	No. Pos./No. Tested 0/10	Enteric and urinary bladder parasites were not observed in any rat.

PATHOLOGY		
Gross:	None Significant	Overall frequency of lesions in these rats is low.
Histologic:		
Peribronchiolar lymphoid hyperplasia	6/10	Lesions are incidental and/or consistent with normal aging process and are not indicative of infection with murine adventitious pathogens.
Alveolar histiocytosis	3/10	
Multifocal interstitial fibrosis - lung	2/10	
Intimal mineralization - lung	4/10	
Nephrocalcinosis	2/3	
A few incidental lesions were also noted.		

AVAILABILITY	
Rats obtained from NIA-NIH aging colonies maintained in one maximum security barrier by Harlan Sprague Dawley, Inc., (Harlan) in Frederick, Maryland. The combined census of these colonies, at the time of the referenced monitoring is tabulated below:	
Virgin Male (12 - 40 months of age)	3,172
Virgin Female (15 - 37 months of age)	432
Total Census:	3,604

For information, contact:

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CONTRACT # 111-1-006
RATS Barrier 218A

ANIMAL FACILITY	STRAIN	NO./SEX	AGE	TESTING LABORATORY/DATES
Location: Prattville, AL Barrier/Building: 218A	BN/BiRijNNiaHsd	2M/2F 2M/1F	5 months 13 months	University of Missouri UMRADIL, Columbia, MO
Ship Date: 4/13/08	F344 x BN F1	2M/2F 1M/2F	5 months 13 months	Receipt Date: 4/14/08 Report Date: 5/1/08

EVALUATION
NIA rats submitted for this health monitoring were obtained from NIA-NIH aging colonies maintained in a barrier by Harlan Sprague Dawley, Inc. All rats examined were considered to be in a good state of health.

SEROLOGY			
Agent	Assay	No. Pos./ No. Tested	Comments
Sendai	MFI	0/14	
RCV/SDAV	MFI	0/14	
Parvoviruses NS-1	MFI	0/14	
RMV	MFI	0/14	
RPV	MFI	0/14	
KRV	MFI	0/14	
H-1	MFI	0/14	
PVM	MFI	0/14	
<i>M. pulmonis</i>	MFI	0/14	
Reo 3	MFI	0/3	
TMEV-like virus	MFI	0/3	
MAD	MFI	0/3	
LCM	MFI	0/3	
<i>E. cuniculli</i>	MFI	0/3	
Hantaan	MFI	0/3	
Tyzzers	MFI	0/3	

BACTERIOLOGY		
Agent	No. Pos/No. Tested	Comments
<i>Salmonella spp.</i>	0/14	Nasopharynx/cecum cultures
<i>Pasteurella pneumotropica</i>	0/14	
<i>Pseudomonas aeruginosa</i>	0/3	
<i>Corynebacterium kutscheri</i>	0/14	
<i>Klebsiella pneumoniae</i>	0/3	
<i>Klebsiella oxytoca</i>	0/3	
<i>Staphylococcus aureus</i>	0/3	
<i>Streptococcus pneumoniae</i>	0/14	

PCR	Results	Comments
	No. Pos/No. Tested	
<i>Mycoplasma pulmonis</i>	0/14	
<i>Helicobacter spp</i>	0/14	

RATS Barrier 218A

PARASITOLOGY		
Type and Test	Results	Comments
	No. Pos./No. Tested	
Ectoparasites Test: Direct pelage	0/14	External parasites were not observed in any rat.

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Endoparasites Test(s): Direct, Gross, and Microscopic	CONTRACT NO. AG-5-0006 No. Pos. / No. Tested	
	0/14	

PATHOLOGY		
Gross:	No Gross Lesions Detected	
Histologic:		Lesions are incidental and/or consistent with normal aging process and are not indicative of infection with murine adventitious pathogens. Interstitial pneumonia with giant cells was observed in the lung of one BN/BiRijNNiaHsd rat and is considered a strain related finding and is not associated with any known infectious agent.
Peribronchiolar lymphoid hyperplasia	13/14	
Interstitial pneumonia with giant cells	1/14	
Alveolar histiocytosis	2/14	
Multifocal interstitial fibrosis - lung	2/14	
A few incidental lesions were also noted.		

AVAILABILITY		
Rats obtained from NIA-NIH aging colonies maintained in one maximum security barrier by Harlan Sprague Dawley, Inc., (Harlan) in Prattville, Alabama. The combined census of these colonies, at the time of the referenced monitoring is tabulated below:		
Virgin Male (1 - 13 months of age)		4,576
Virgin Female (1 - 14 months of age)		875
Total Census:		5,451

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RATS Barrier 236A

ANIMAL FACILITY	STRAIN	NO./SEX	AGE	TESTING LABORATORY/DATES
Location: Oregon, WI Barrier/Building: 236A	BN/BiRijNNiaHsd	2M/2F	5 months	University of Missouri UMRADIL, Columbia, MO
		3M/3F	13 months	
Ship Date: 4/13/08	F344 x BN F1	2M/2F	5 months	Receipt Date: 4/14/08 Report Date: 5/1/08
		4M/3F	13 months	

EVALUATION
NIA rats submitted for this health monitoring were obtained from NIA-NIH aging colonies maintained in barriers by Harlan Sprague Dawley, Inc. All rats examined were considered to be in a good state of health.

SEROLOGY			
Agent	Assay	No. Pos./ No. Tested	Comments
Sendai	MFI	0/21	
RCV/SDAV	MFI	0/21	
Parvoviruses NS-1	MFI	0/21	
RMV	MFI	0/21	
RPV	MFI	0/21	
KRV	MFI	0/21	
H-1	MFI	0/21	
PVM	MFI	0/21	
<i>M. pulmonis</i>	MFI	0/21	
Reo 3	MFI	0/4	
TMEV-like virus	MFI	0/4	
MAD	MFI	0/4	
LCM	MFI	0/4	
<i>E. cuniculli</i>	MFI	0/4	
Hantaan	MFI	0/4	
Tyzzers	MFI	0/4	

BACTERIOLOGY		
Agent	No. Pos./No. Tested	Comments
<i>Salmonella spp.</i>	0/21	Nasopharynx/cecum cultures
<i>Pasteurella pneumotropica</i>	0/21	
<i>Pseudomonas aeruginosa</i>	0/4	
<i>Corynebacterium kutscheri</i>	0/21	
<i>Klebsiella pneumonia</i>	0/4	
<i>Klebsiella oxytoca</i>	0/4	
<i>Staphylococcus aureus</i>	0/4	
<i>Streptococcus pneumoniae</i>	0/21	

PCR		Comments
	No. Pos./No. Tested	
<i>Mycoplasma pulmonis</i>	0/21	
<i>Helicobacter spp</i>	0/21	

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RATS Barrier 236A

PARASITOLOGY		
Type and Test	Results	Comments
Ectoparasites Test: Direct pelage	No. Pos./No. Tested 0/21	External parasites were not observed in any rat.
Endoparasites Test(s): Direct, Gross, and Microscopic	No. Pos./No. Tested 0/21	

PATHOLOGY		
Gross:	No Gross Lesions Detected	
Histologic:		
Alveolar histiocytosis	2/21	Lesions are incidental and/or consistent with normal aging process and are not indicative of infection with murine adventitious pathogens. Interstitial pneumonia with giant cells was observed in the lung of one BN/BiRijNNiaHsd rat and is considered a strain related finding and is not associated with any known infectious agent.
Peribronchiolar lymphoid hyperplasia	18/21	
Mild hydronephrosis	2/4	
Interstitial pneumonia with giant cells	1/21	
Multifocal interstitial fibrosis - lung	2/21	
Intimal mineralization - lung	2/21	
A few additional incidental lesions were also noted.		

AVAILABILITY		
Rats obtained from NIA-NIH aging colonies maintained in one maximum security barrier by Harlan Sprague Dawley, Inc., (Harlan) in Oregon, Wisconsin. The combined census of these colonies, at the time of the referenced monitoring is tabulated below:		
Virgin Male (1 - 36 months of age)		7,670
Virgin Female (1 - 39 months of age)		1,233
Total Census:		8,903

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