

HARLAN ANIMAL COLONIES
HEALTH EVALUATION SUMMARY

Enclosure 2
March 19, 2009
Page 1 of 2

CONTRACT N01-AG-5-0006

RATS Barrier 218A

ANIMAL FACILITY	STRAIN	NO./SEX	AGE	TESTING LABORATORY/DATES
Location: Prattville, AL Barrier/Building: 218A	BN/BiRijNNiaHsd	6M/3F	6 - 20months	University of Missouri UMRADIL, Columbia, MO
Ship Date: 1/19/09	FBNF1/NNiaHsd	7M/3F	6 - 20 months	Receipt Date: 1/20/09 Report Date: 3/11/09

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	0/19	
RCV/SDAV	MFI	0/19	
Parvoviruses NS-1	MFI	0/19	
RMV	MFI	0/19	
RPV	MFI	0/19	
KRV	MFI	0/19	
H-1	MFI	0/19	
PVM	MFI	0/19	
<i>M. pulmonis</i>	MFI	0/19	
Reo 3	MFI	0/7	
TMEV-like virus	MFI	0/7	
MAD	MFI	0/7	
LCM	MFI	0/7	
<i>E. cuniculli</i>	MFI	0/7	
Hantaan	MFI	0/7	
Tyzzers	MFI	0/7	

BACTERIOLOGY

Agent	No. Pos/No. Tested	Comments
<i>Salmonella spp.</i>	0/19	Nasopharynx/cecum cultures
<i>Pasteurella pneumotropica</i>	0/15	
<i>Pseudomonas aeruginosa</i>	0/7	
<i>Corynebacterium kutscheri</i>	0/15	
<i>Klebsiella pneumoniae</i>	0/7	
<i>Klebsiella oxytoca</i>	2/7	
<i>Staphylococcus aureus</i>	0/4	
<i>Streptococcus pneumoniae</i>	0/15	

PCR

	Results	Comments
	No. Pos/No. Tested	
<i>Mycoplasma pulmonis</i>	0/12	
<i>Helicobacter spp</i>	0/5	

HARLAN ANIMAL COLONIES
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Enclosure 2
March 19, 2009
Page 2 of 2

CONTRACT N01-AG-5-0006

RATS Barrier 218A

PARASITOLOGY		
Type and Test	Results	Comments
Ectoparasites Test: Direct pelage	No. Pos./No. Tested 0/19	External parasites were not observed in any rat.
Endoparasites Test(s): Direct, Gross, and Microscopic	No. Pos./No. Tested 0/19	

PATHOLOGY		
Gross:	No Gross Lesions Detected	
Histologic:		
Peribronchiolar lymphoid hyperplasia	19/19	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.
Eosinophilic granulomatous pneumonia	1/7	
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 - 22 months of age)	7,558
Virgin Female (1 - 23 months of age)	1,348
Total Census:	8,906

For information, contact:
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Enclosure 2
March 19, 2009
Page 1 of 2

CONTRACT N01-AG-5-0006

RATS Barrier 236A

ANIMAL FACILITY	STRAIN	NO./SEX	AGE	TESTING LABORATORY/DATES
Location: Oregon, WI Barrier/Building: 236A	BN/BiRijNNiaHsd	6M/4F	6 - 20 months	University of Missouri UMRADIL, Columbia, MO
Ship Date: 1/19/09	F344 x BN F1	6M/4F	6 - 20 months	Receipt Date: 1/20/09 Report Date: 3/11/09

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	0/20	
RCV/SDAV	MFI	0/20	
Parvoviruses NS-1	MFI	0/20	
RMV	MFI	0/20	
RPV	MFI	0/20	
KRV	MFI	0/20	
H-1	MFI	0/20	
PVM	MFI	0/20	
<i>M. pulmonis</i>	MFI	0/20	
Reo 3	MFI	0/13	
TMEV-like virus	MFI	0/13	
MAD	MFI	0/13	
LCM	MFI	0/13	
<i>E. cuniculli</i>	MFI	0/13	
Hantaan	MFI	0/13	
Tyzzers	MFI	0/13	

BACTERIOLOGY

Agent	No. Pos./No. Tested	Comments
<i>Salmonella spp.</i>	0/20	Nasopharynx/cecum cultures
<i>Pasteurella pneumotropica</i>	0/9	
<i>Pseudomonas aeruginosa</i>	0/7	
<i>Corynebacterium kutscheri</i>	0/9	
<i>Klebsiella pneumoniae</i>	0/7	
<i>Klebsiella oxytoca</i>	0/7	
<i>Staphylococcus aureus</i>	0/5	
<i>Streptococcus pneumoniae</i>	0/9	

PCR

	No. Pos./No. Tested	Comments
<i>Mycoplasma pulmonis</i>	0/20	
<i>Helicobacter spp</i>	0/4	

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Enclosure 2
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Page 2 of 2

CONTRACT N01-AG-5-0006


RATS Barrier 236A

PARASITOLOGY		
Type and Test	Results	Comments
Ectoparasites Test: Direct pelage	No. Pos./No. Tested 0/20	External parasites were not observed in any rat.
Endoparasites Test(s): Direct, Gross, and Microscopic	No. Pos./No. Tested 2/20	

PATHOLOGY		
Gross:	No Gross Lesions Detected	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.
Histologic:		
Alveolar histiocytosis	0/20	
Peribronchiolar lymphoid hyperplasia	10/20	
Mild hydronephrosis	1/7	
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)	8,051
Virgin Female (1 - 39 months of age)	1,404
Total Census:	9,455

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Enclosure 2
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Page 1 of 2

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: 1/19/09	BN/BIrjNNiaHsd	4M/1F	24 - 25 months	University of Missouri UMRADIL, Columbia, MO Receipt Date: 1/20/09 Report Date: 3/11/09
	FBNF1/NNiaHsd	1M/4F	24 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	0/2	
TMEV-like virus	MFI	0/2	
MAD	MFI	0/2	
LCM	MFI	0/2	
<i>E. cuniculli</i>	MFI	0/2	
Hantaan	MFI	0/2	
Tyzzers	MFI	0/2	

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>	0/6	
<i>Pseudomonas aeruginosa</i>	0/2	
<i>Corynebacterium kutscheri</i>	0/6	
<i>Klebsiella pneumoniae</i>	0/2	
<i>Klebsiella oxytoca</i>	0/2	
<i>Staphylococcus aureus</i>	1/2	
<i>Streptococcus pneumoniae</i>	0/6	

PCR

	Results	Comments
	No. Tested/No. Pos.	
<i>Mycoplasma pulmonis</i>	0/10	
<i>Helicobacter spp</i>	0/4	

HARLAN ANIMAL COLONIES
HEALTH EVALUATION SUMMARY

Enclosure 2
March 19, 2009
Page 2 of 2

CONTRACT N01-AG-5-0006

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	5/10	Lesions are incidental and/or consistent with normal aging process and are not indicative of infection with murine adventitious pathogens.
Hydronephrosis	0/2	
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 (20 - 39 months of age)	1,340
Virgin Female (25 - 40 months of age)	164
Total Census:	1,504

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