

HARLAN ANIMAL COLONIES
HEALTH EVALUATION SUMMARY

Enclosure 2
March 8, 2007
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CONTRACT N01-AG-7-2113

RATS Barrier 202B

ANIMAL FACILITY	STRAIN	NO./SEX	AGE	TESTING LABORATORY/DATES
Location: Indianapolis, IN Barrier/Building: 202B Ship Date: 1/21/07	F344/NHsd	2M/1F 1M/2F	5 months 10 months	University of Missouri MURADIL, Columbia, MO Receipt Date: 1/22/07 Report Date: 3/1/07

EVALUATION

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

SEROLOGY

Agent	Assay	No. Pos./ No. Tested	Comments
Sendai	MFI	0/6	
RCV/SDAV	MFI	0/6	
Parvoviruses	MFI	0/6	
KRV	MFI	0/6	
H-1	MFI	0/6	
PVM	MFI	0/6	
<i>M. pulmonis</i>	MFI	0/6	
Reo 3	MFI	0/1	
TMEV GDVII	MFI	0/1	
MAD	MFI	0/1	
LCM	MFI	0/1	
Hantaan	MFI	0/1	

BACTERIOLOGY

Agent	No. Pos./No. Tested	Comments
<i>Mycoplasma pulmonis</i>	0/6	Nasopharynx lung/cecum/uterine cultures
<i>Salmonella spp.</i>	0/6	
<i>Pasteurella pneumotropica</i>	0/6	
<i>Pasteurella spp.</i>	0/6	
<i>Bordetella bronchiseptica</i>	0/6	
<i>Pseudomonas aeruginosa</i>	3/6	
<i>Citrobacter rodentium</i>	0/6	
<i>Corynebacterium kutscheri</i>	0/6	
<i>Klebsiella pneumoniae</i>	1/6	
<i>Klebsiella oxytoca</i>	0/6	
<i>Staphylococcus aureus</i>	2/6	
<i>Streptococcus pneumoniae</i>	0/6	The bacteria isolated from the nasopharynx and cecum are opportunistic or normal flora of the rat.
<i>Streptococcus sp. Group B beta</i>	0/6	

PCR	No. Pos./ No. Tested	Comments
<i>Mycoplasma pulmonis</i>	0/6	
<i>Helicobacter hepaticus</i>	0/6	

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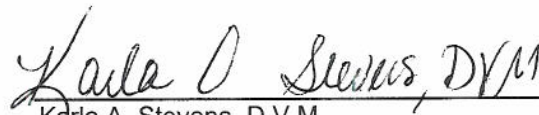
RATS Barrier 202B

PARASITOLOGY		
Type and Test	No. Pos./No. Tested	Comments
Ectoparasites Test(s): Direct pelage	0/6	External parasites were not observed in any rat.
Endoparasites Test(s): Direct, Gross, and Microscopic (intestines & bladder)	0/6	Enteric and urinary bladder parasites were not observed in any rat.

PATHOLOGY	No. Pos./No. Tested	
Gross:	None Significant	Overall frequency of lesions in these rats is low.
Histologic:		
Lymphoid infiltrate lung	5/6	Lesions are incidental and/or consistent with normal aging process and are not indicative of infection with murine adventitious pathogens.
Harderian gland lymphoid infiltrate	2/6	
Microgranuloma liver	1/6	
Focal myocardial degeneration	2/6	
A few other incidental lesions were also noted.		

AVAILABILITY	
Rats obtained from NIA-NIH aging colonies maintained in a maximum security barrier by Harlan in Indianapolis, Indiana. The combined census of these colonies, at the time of referenced monitoring, is tabulated below:	
Retired Breeder - Male (9 - 27 months of age)	184
Virgin - Male (1 - 31 months of age)	4,011
Virgin - Female (1 - 34 months of age)	2,196
Total Census:	6,391

For information, contact:
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RATS Barrier 202C

ANIMAL FACILITY	STRAIN	NO./SEX	AGE	TESTING LABORATORY/DATES
Location: Indianapolis, IN Barrier/Building: 202C Ship Date: 1/21/07	F344/NHsd	1M/2F 2M/1F	5 months 10 months	University of Missouri MURADIL, Columbia, MO Receipt Date: 1/22/07 Report Date: 3/1/07

EVALUATION

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

SEROLOGY

Agent	Assay	No. Pos./ No. Tested	Comments
Sendai	MFI	0/6	
RCV/SDAV	MFI	0/6	
Parvoviruses	MFI	0/6	
KRV	MFI	0/6	
H-1	MFI	0/6	
PVM	MFI	0/6	
<i>M. pulmonis</i>	MFI	0/6	
Reo 3	MFI	0/2	
TMEV GDVII	MFI	0/2	
MAD	MFI	0/2	
LCM	MFI	0/2	
Hantaan	MFI	0/2	

BACTERIOLOGY

Agent	No. Pos./No. Tested	Comments
<i>Mycoplasma pulmonis</i>	0/6	Nasopharynx lung/cecum/uterine cultures
<i>Salmonella spp.</i>	0/6	
<i>Pasteurella pneumotropica</i>	0/6	
<i>Pasteurella spp.</i>	0/6	
<i>Bordetella bronchiseptica</i>	0/6	
<i>Pseudomonas aeruginosa</i>	0/6	
<i>Citrobacter rodentium</i>	0/6	
<i>Corynebacterium kutscheri</i>	0/6	
<i>Klebsiella pneumoniae</i>	0/6	
<i>Klebsiella oxytoca</i>	0/6	
<i>Staphylococcus aureus</i>	1/6	
<i>Streptococcus pneumoniae</i>	0/6	The bacteria isolated from the nasopharynx and cecum are opportunistic or normal flora of the rat.
<i>Streptococcus sp. Group B beta</i>	2/6	

PCR	No. Pos./ No. Tested	Comments
<i>Mycoplasma pulmonis</i>	0/6	
<i>Helicobacter hepaticus</i>	0/6*	*Previously Positive

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RATS Barrier 202C

PARASITOLOGY		
Type and Test	No. Pos./No. Tested	Comments
Ectoparasites Test(s): Direct pelage	0/6	External parasites were not observed in any rat.
Endoparasites Test(s): Direct, Gross, and Microscopic (intestines & bladder)	0/6	Enteric and urinary bladder parasites were not observed in any rat.

PATHOLOGY	No. Pos./No. Tested	
Gross:	None Significant	Overall frequency of lesions in these rats is low.
Histologic:		Lesions are incidental and/or consistent with normal aging process and are not indicative of infection with murine adventitious pathogens.
Lymphoid hyperplasia lung	4/6	
Harderian gland lymphoid infiltrate	4/6	
Myocardial degeneration	2/6	
Microgranuloma liver	1/6	
Nephrocalcinosis	3/6	
Interstitial pneumonia	1/6	
A few other incidental lesions were also noted.		

AVAILABILITY		
Rats obtained from NIA-NIH aging colonies maintained in a maximum security barrier by Harlan in Indianapolis, Indiana. The combined census of these colonies, at the time of referenced monitoring, is tabulated below:		
Retired Breeder - Male (9 - 27 months of age)		1,200
Virgin - Male (1 - 30 months of age)		5,061
Virgin - Female (1 - 27 months of age)		1,763
Total Census:		8,024

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RATS Barrier 217

ANIMAL FACILITY	STRAIN	NO./SEX	AGE	TESTING LABORATORY/DATES
Location: Indianapolis, IN Barrier/Building: 217 Ship Date: 1/21/07	F344/NHsd	2M/2F 2M/2F	5 months 10 months	University of Missouri MURADIL, Columbia, MO Receipt Date: 1/22/07 Report Date: 3/1/07

EVALUATION

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

SEROLOGY

Agent	Assay	No. Pos./ No. Tested	Comments
Sendai	MFI	0/8	
RCV/SDAV	MFI	0/8	
Parvoviruses	MFI	0/8	
KRV	MFI	0/8	
H-1	MFI	0/8	
PVM	MFI	0/8	
<i>M. pulmonis</i>	MFI	0/8	
Reo 3	MFI	0/2	
TMEV GDVII	MFI	0/2	
MAD	MFI	0/2	
LCM	MFI	0/2	
Hantaan	MFI	0/2	

BACTERIOLOGY

Agent	No. Pos./No. Tested	Comments
<i>Mycoplasma pulmonis</i>	0/8	Nasopharynx lung/cecum/uterine cultures
<i>Salmonella spp.</i>	0/8	
<i>Pasteurella pneumotropica</i>	0/8	
<i>Pasteurella spp.</i>	0/8	
<i>Bordetella bronchiseptica</i>	0/8	
<i>Pseudomonas aeruginosa</i>	4/8	
<i>Citrobacter rodentium</i>	0/8	
<i>Corynebacterium kutscheri</i>	0/8	
<i>Klebsiella pneumoniae</i>	1/8	
<i>Klebsiella oxytoca</i>	0/8	
<i>Staphylococcus aureus</i>	1/8	
<i>Streptococcus pneumoniae</i>	0/8	The bacteria isolated from the nasopharynx and cecum are opportunistic or normal flora of the rat.
<i>Streptococcus sp. Group B beta</i>	0/8	

PCR	No. Pos./ No. Tested	Comments
<i>Mycoplasma pulmonis</i>	0/8	
<i>Helicobacter sp.</i>	0/8	

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RATS Barrier 217

PARASITOLOGY		
Type and Test	No. Pos./No. Tested	Comments
Ectoparasites Test(s): Direct pelage	0/8	External parasites were not observed in any rat.
Endoparasites Test(s): Direct, Gross, and Microscopic (intestines & bladder)	8/8*	Enteric and urinary bladder parasites were not observed in any rat. *Tested positive for <i>Chilomastix sp.</i>

PATHOLOGY		No. Pos./No. Tested	Comments
Gross:	None significant		Overall frequency of lesions in these rats is low.
Histologic:			
Lymphoid hyperplasia lung	8/8		Lesions are incidental and / or consistent with the normal aging process and are not indicative of infection with murine adventitious agents.
Myocardial degeneration	5/8		
Nephrocalanosis	4/8		
A few other incidental lesions were also noted.			

AVAILABILITY		
Rats obtained from NIA-NIH aging colonies maintained in a maximum security barrier by Harlan in Indianapolis, Indiana. The combined census of these colonies, at the time of referenced monitoring, is tabulated below:		
Retired Breeders - Male (9 - 27 months of age)		179
Virgin - Male (1 - 29 months of age)		7,420
Virgin - Female (1 - 32 months of age)		2,907
Total Census:		10,506

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