

HARLAN ANIMAL COLONIES
HEALTH EVALUATION SUMMARY

Enclosure 2
December 16, 2008
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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: 10/19/08	F344/NHsd	3M/3F	23 months	University of Missouri MURADIL, Columbia, MO Receipt Date: 10/20/08 Report Date: 12/11/08

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>	0/2	
<i>Pseudomonas aeruginosa</i>	0/6	
<i>Citrobacter rodentium</i>	0/6	
<i>Corynebacterium kutscheri</i>	0/2	
<i>Klebsiella pneumoniae</i>	0/6	
<i>Klebsiella oxytoca</i>	0/6	
<i>Staphylococcus aureus</i>	0/2	
<i>Streptococcus pneumoniae</i>	0/2	The bacteria isolated from the nasopharynx and cecum are opportunistic or normal flora of the rat.
<i>Streptococcus sp. Group B beta</i>	0/2	

PCR

	No. Pos./ No. Tested	Comments
<i>Mycoplasma pulmonis</i>	0/6	
<i>Helicobacter hepaticus</i>	0/4	

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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:		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	5/6	
Nephrocalcinosis	1/6	
Myocardial lymphoid infiltrate with necrosis	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 (19 - 28 months of age)	68
Virgin - Male (12 - 30 months of age)	1,308
Virgin - Female (11 - 34 months of age)	1,812
Total Census:	3,188

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: 10/19/08	F344/NHsd	3M/3F	23 months	University of Missouri MURADIL, Columbia, MO Receipt Date: 10/20/08 Report Date: 12/11/08

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>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>	0/6	
<i>Streptococcus pneumoniae</i>	0/6	The bacteria isolated from the nasopharynx and
<i>Streptococcus sp. Group B beta</i>	0/6	cecum are opportunistic or normal flora of the rat.

PCR

	No. Pos./ No. Tested	Comments
<i>Mycoplasma pulmonis</i>	0/6	
<i>Helicobacter hepaticus</i>	0/5*	*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:		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	6/6	
Myocardial degeneration	3/5	
Nephrocalcinosis	0/6	
Biliary hyperplasia	5/6	
Acute hepatic necrosis	0/6	
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 (19 - 29 months of age)		506
Virgin - Male (11 - 31 months of age)		1,626
Virgin - Female (22 - 29 months of age)		99
Total Census:		2,231

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RATS Barrier 217

ANIMAL FACILITY	STRAIN	NO./SEX	AGE	TESTING LABORATORY/DATES
Location: Indianapolis, IN Barrier/Building: 217 Ship Date: 10/19/08	F344/NHsd	4M/4F	23 months	University of Missouri MURADIL, Columbia, MO Receipt Date: 10/20/08 Report Date: 12/11/08

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>	0/5	
<i>Pseudomonas aeruginosa</i>	0/8	
<i>Citrobacter rodentium</i>	0/8	
<i>Corynebacterium kutscheri</i>	0/5	
<i>Klebsiella pneumoniae</i>	0/5	
<i>Klebsiella oxytoca</i>	0/5	
<i>Staphylococcus aureus</i>	2/5	
<i>Streptococcus pneumoniae</i>	0/5	The bacteria isolated from the nasopharynx and cecum are opportunistic or normal flora of the rat.
<i>Streptococcus sp. Group B beta</i>	0/5	

PCR	No. Pos./ No. Tested	Comments
<i>Mycoplasma pulmonis</i>	0/8	
<i>Helicobacter sp.</i>	0/6	

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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)	4/8*	Enteric and urinary bladder parasites were not observed in any rat. *Tested positive for <i>Chilomastix spp.</i> <i>Chilomastix spp.</i> is a nonpathogenic commensal flagellate.

PATHOLOGY		No. Pos./No. Tested	Comments
Gross:	None significant		Overall frequency of lesions in these rats is low.
Histologic:			Lesions are incidental and / or consistent with the normal aging process and are not indicative of infection with murine adventitious agents.
Lymphoid hyperplasia lung	5/8		
Nephrosis	4/8		
Harderian gland lymphoid infiltrate	4/8		
Myocardial degeneration	7/8		
Renal tubule regeneration	1/8		
Acute hepatic necrosis	1/8		
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 (20 - 25 months of age)	28
Virgin - Male (11 - 28 months of age)	4,489
Virgin - Female (11 - 33 months of age)	1,680
Total Census:	6,197

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