

HARLAN ANIMAL COLONIES
HEALTH EVALUATION SUMMARY

Enclosure 2
September 24, 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: 7/15/08	F344/NHsd	2M/2F 1M/1F	8 months 15 months	University of Missouri MURADIL, Columbia, MO Receipt Date: 7/16/08 Report Date: 9/11/08

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>	0/6	
<i>Pseudomonas aeruginosa</i>	0/6	
<i>Citrobacter rodentium</i>	0/6	
<i>Corynebacterium kutscheri</i>	0/4	
<i>Klebsiella pneumoniae</i>	0/4	
<i>Klebsiella oxytoca</i>	0/4	
<i>Staphylococcus aureus</i>	0/4	
<i>Streptococcus pneumoniae</i>	0/4	
<i>Streptococcus sp. Group B beta</i>	0/4	The bacteria isolated from the nasopharynx and 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	

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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:		Overall frequency of lesions in these rats is low.
Histologic:		
Lymphoid hyperplasia lung	6/6	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	
Nephrocalcinosis	2/6	
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 (16 - 28 months of age)	106
Virgin - Male (9 - 30 months of age)	1,681
Virgin - Female (8 - 31 months of age)	2,098
Total Census:	3,885

For information, contact:
Dr. Thomas W. Davis
HARLAN SPRAGUE DAWLEY, INC.
8520 Allison Pointe, #400
Indianapolis, IN 46250
Phone: (317) 806-6060
Fax: (317) 806-6073



Thomas W. Davis, D.V.M.
Senior Veterinarian

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RATS Barrier 202C

ANIMAL FACILITY	STRAIN	NO./SEX	AGE	TESTING LABORATORY/DATES
Location: Indianapolis, IN Barrier/Building: 202C Ship Date: 7/15/08	F344/NHsd	3M/3F	20 months	University of Missouri MURADIL, Columbia, MO Receipt Date: 7/16/08 Report Date: 9/11/08

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 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>	0/5*	*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:		
Lymphoid hyperplasia lung	4/6	Lesions are incidental and/or consistent with normal aging process and are not indicative of infection with murine adventitious pathogens.
Harderian gland lymphoid infiltrate	6/6	
Myocardial degeneration	4/6	
Nephrocalcinosis	1/6	
Biliary hyperplasia	2/6	
Acute hepatic 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 (16 - 30 months of age)	719
Virgin - Male (8 - 32 months of age)	2,125
Virgin - Female (19 - 30 months of age)	268
Total Census:	3,112

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RATS Barrier 217

ANIMAL FACILITY	STRAIN	NO./SEX	AGE	TESTING LABORATORY/DATES
Location: Indianapolis, IN Barrier/Building: 217 Ship Date: 7/20/08	F344/NHsd	2M/2F 2M/2F	8 months 15 months	University of Missouri MURADIL, Columbia, MO Receipt Date: 7/21/08 Report Date: 9/11/08

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>	0/7	
<i>Pseudomonas aeruginosa</i>	0/8	
<i>Citrobacter rodentium</i>	0/8	
<i>Corynebacterium kutscheri</i>	0/7	
<i>Klebsiella pneumoniae</i>	0/7	
<i>Klebsiella oxytoca</i>	0/7	
<i>Staphylococcus aureus</i>	0/7	
<i>Streptococcus pneumoniae</i>	0/7	
<i>Streptococcus sp. Group B beta</i>	0/7	

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)	7/8*	Enteric and urinary bladder parasites were not observed in any rat. *Tested positive for <i>Chilomastix</i> spp. <i>Chilomastix</i> spp 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	8/8		
Nephrocalcinosis	4/8		
Harderian gland lymphoid infiltrate	5/8		
Myocardial degeneration	2/8		
Renal tubule regeneration	4/8		
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 (17 - 28 months of age)	72
Virgin - Male (8 - 30 months of age)	5,806
Virgin - Female (8 - 33 months of age)	2,050
Total Census:	7,928

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