

HARLAN ANIMAL COLONIES
HEALTH EVALUATION SUMMARY

Enclosure 2
September 19, 2006
Page 1 of 2

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: 7/23/06	F344/NHsd	1M/1F 3M/0F	5 months 10 months	University of Missouri MURADIL, Columbia, MO Receipt Date: 7/24/06 Report Date: 8/22/06

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	0/5	*Previously Tested Negative
RCV/SDAV	MFI	0/5	
Parvoviruses	MFI	0/5	
KRV	MFI	0/5	
H-1	MFI	0/5	
PVM	MFI	0/5	
<i>M. pulmonis</i>	MFI	0/5	
Reo 3	MFI	0/0*	
TMEV GDVII	MFI	0/0*	
MAD	MFI	0/0*	
LCM	MFI	0/0*	
Hantaan	MFI	0/0*	

BACTERIOLOGY

Agent	No. Pos/No. Tested	Comments
<i>Mycoplasma pulmonis</i>	0/5	Nasopharynx lung/cecum/uterine cultures The bacteria isolated from the nasopharynx and cecum are opportunistic or normal flora of the rat.
<i>Salmonella spp.</i>	0/5	
<i>Pasteurella pneumotropica</i>	0/5	
<i>Pasteurella spp.</i>	0/5	
<i>Bordetella bronchiseptica</i>	0/5	
<i>Pseudomonas aeruginosa</i>	0/5	
<i>Citrobacter rodentium</i>	0/5	
<i>Corynebacterium kutscheri</i>	0/5	
<i>Klebsiella pneumoniae</i>	4/5	
<i>Klebsiella oxytoca</i>	1/5	
<i>Staphylococcus aureus</i>	2/5	
<i>Streptococcus pneumoniae</i>	0/5	
<i>Streptococcus sp. Group B beta</i>	1/5	

PCR

	No. Pos./ No. Tested	Comments
<i>Mycoplasma pulmonis</i>	0/5	
<i>Helicobacter hepaticus</i>	0/5	

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HEALTH EVALUATION SUMMARY

Enclosure 2
September 19, 2006
Page 2 of 2

CONTRACT N01-AG-7-2113

RATS Barrier 202B

PARASITOLOGY		
Type and Test	No. Pos./No. Tested	Comments
Ectoparasites Test(s): Direct pelage	0/5	External parasites were not observed in any rat.
Endoparasites Test(s): Direct, Gross, and Microscopic (intestines & bladder)	0/5	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 infiltrate lung	5/5	
Focal interstitial pneumonia	1/5	
Harderian gland lymphoid infiltrate	1/5	
Microgranuloma liver	2/5	
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)	153
Virgin - Male (1 - 29 months of age)	3,639
Virgin - Female (1 - 36 months of age)	2,205
Total Census:	5,997

For information, contact:
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Robert J. Russell, D.V.M.
Principal Investigator

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Enclosure 2
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Page 1 of 2

CONTRACT N01-AG-7-2113

RATS Barrier 202C

ANIMAL FACILITY	STRAIN	NO./SEX	AGE	TESTING LABORATORY/DATES
Location: Indianapolis, IN Barrier/Building: 202C Ship Date: 7/23/06	F344/NHsd	2M/2F 1M/1F	5 months 10 months	University of Missouri MURADIL, Columbia, MO Receipt Date: 7/24/06 Report Date: 8/22/06

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	0/0*	
TMEV GDVII	MFI	0/0*	
MAD	MFI	0/0*	
LCM	MFI	0/0*	
Hantaan	MFI	0/0*	*Previously Tested Negative

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>	2/6	
<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*	*Previously Positive

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HEALTH EVALUATION SUMMARY

Enclosure 2
September 19, 2006
Page 2 of 2

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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	3/6	
Myocardial degeneration	3/6	
Microgranuloma liver	2/6	
Nephrocalcinosis	3/6	
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 - 31 months of age)	1,094
Virgin - Male (1 - 30 months of age)	4,653
Virgin - Female (1 - 29 months of age)	1,925
Total Census:	7,672

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Enclosure 2
September 12, 2006
Page 1 of 2

CONTRACT N01-AG-7-2113

RATS Barrier 217

ANIMAL FACILITY	STRAIN	NO./SEX	AGE	TESTING LABORATORY/DATES
Location: Indianapolis, IN Barrier/Building: 217 Ship Date: 7/23/06	F344/NHsd	2M/2F 3M/3F 1M/1F	5 months 10 months 18 months	University of Missouri MURADIL, Columbia, MO Receipt Date: 7/24/06 Report Date: 8/22/06

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	0/12	*Previously Tested Negative
RCV/SDAV	MFI	0/12	
Parvoviruses	MFI	0/12	
KRV	MFI	0/12	
H-1	MFI	0/12	
PVM	MFI	0/12	
<i>M. pulmonis</i>	MFI	0/12	
Reo 3	MFI	0/0*	
TMEV GDVII	MFI	0/0*	
MAD	MFI	0/0*	
LCM	MFI	0/0*	
Hantaan	MFI	0/0*	

BACTERIOLOGY

Agent	No. Pos./No. Tested	Comments
<i>Mycoplasma pulmonis</i>	0/12	Nasopharynx lung/cecum/uterine cultures The bacteria isolated from the nasopharynx and cecum are opportunistic or normal flora of the rat.
<i>Salmonella spp.</i>	0/12	
<i>Pasteurella pneumotropica</i>	0/12	
<i>Pasteurella spp.</i>	0/12	
<i>Bordetella bronchiseptica</i>	0/12	
<i>Pseudomonas aeruginosa</i>	0/12	
<i>Citrobacter rodentium</i>	0/12	
<i>Corynebacterium kutscheri</i>	0/12	
<i>Klebsiella pneumoniae</i>	0/12	
<i>Klebsiella oxytoca</i>	0/12	
<i>Staphylococcus aureus</i>	9/12	
<i>Streptococcus pneumoniae</i>	0/12	
<i>Streptococcus sp. Group B beta</i>	0/12	

PCR

	No. Pos./ No. Tested	Comments
<i>Mycoplasma pulmonis</i>	0/12	
<i>Helicobacter sp.</i>	0/12	

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HEALTH EVALUATION SUMMARY

Enclosure 2
September 12, 2006
Page 2 of 2

CONTRACT N01-AG-7-2113

RATS Barrier 217

PARASITOLOGY		
Type and Test	No. Pos./No. Tested	Comments
Ectoparasites Test(s): Direct pelage	0/12	External parasites were not observed in any rat.
Endoparasites Test(s): Direct, Gross, and Microscopic (intestines & bladder)	0/12	Enteric and urinary bladder parasites were not observed in any rat.

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	12/12		
Harderian gland lymphoid infiltrate	4/12		
Microgranuloma liver	3/12		
Myocardial degeneration	9/12		
Nephrocalcinosis	4/12		
Nephrosis	3/12		
Interstitial Cell Tumor Testes	1/6		
C-cell Adenoma Thyroid	1/12		
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 - 29 months of age)	213
Virgin - Male (1 - 26 months of age)	7,427
Virgin - Female (1 - 28 months of age)	2,626
Total Census:	10,266

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