

HARLAN ANIMAL COLONIES
HEALTH EVALUATION SUMMARY

Enclosure 2
November 30, 2006
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CONTRACT N01-AG-8-2106

RATS Barrier 202C

ANIMAL FACILITY	STRAIN	NO./SEX	AGE	TESTING LABORATORY/DATES
Location: Indianapolis, IN Barrier/Building: 202C Ship Date: 9/4/06	F344/NHsd	3M/0F	12 months	University of Missouri UMRADIL, Columbia, MO Receipt Date: 9/5/06 Report Date: 11/15/06
	F344 x BN F1	4M/0F	12 months	

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
<i>M. pulmonis</i>	MFI	0/7	
Sendai	MFI	0/7	
RCV/SDAV	MFI	0/7	
Parvoviruses	MFI	0/7	
KRV	MFI	0/7	
H-1	MFI	0/7	
PVM	MFI	0/7	
REO 3	MFI	0/7	
TMEV GDVII	MFI	0/3	
LCM	MFI	0/3	
Hantaan	MFI	0/3	
<i>E. cuniculi</i>	MFI	0/3	

BACTERIOLOGY

Agent	No. Pos/No. Tested	Comments
<i>Salmonella spp.</i>	0/7	Nasopharynx/cecum cultures. The bacteria isolated from the oropharynx and cecum are opportunistic or normal flora of the rat.
<i>Pasteurella pneumotropica</i>	0/7	
<i>Pasteurella spp.</i>	0/7	
<i>Bordetella bronchiseptica</i>	0/7	
<i>Pseudomonas aeruginosa</i>	0/7	
<i>Citrobacter rodentium</i>	0/7	
<i>Corynebacterium kutscheri</i>	0/7	
<i>Klebsiella pneumoniae</i>	3/7	
<i>Klebsiella oxytoca</i>	0/7	
<i>Staphylococcus aureus</i>	0/7	
<i>Streptococcus sp. Group B beta</i>	0/7	

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PCR	Results	Comments
<i>Mycoplasma pulmonis</i> <i>Helicobacter spp.</i>	No. Pos./No. Tested 0/7 0/7*	*Pooled samples. Previously positive.

PARASITOLOGY

Type and Test	Results	Comments
Ectoparasites Test(s): Direct pelage	No. Pos./No. Tested 0/7	External parasites were not observed in any rat.
Endoparasites Test(s): Direct, Gross, and Microscopic (intestines & bladder)	No. Pos./No. Tested 0/7	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:	Not Tested	
Mild retinal degeneration	1/3	
Interstitial lymphoid infiltrate-Harderian Gland	3/3	
Focal tubular regeneration-kidney	1/3	
Lymphoid infiltrate & hyperplasia-lung	3/3	
Alveolar histiocytosis	1/3	

AVAILABILITY

Rats obtained from NIA-NIH aging colonies maintained in one maximum security barrier by Harlan in Indianapolis, Indiana. The combined census of these colonies at the time of referenced monitoring is tabulated below:		
Virgin Male (12 - 35 months of age)		544
Virgin Female (N/A months of age)		0
Total Census:		544

For information, contact:

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RATS Barrier 208B

ANIMAL FACILITY	STRAIN	NO./SEX	AGE	TESTING LABORATORY/DATES
Location: Frederick, MD Barrier/Building: 208B Ship Date: 9/4/06	F344/NHsd	2M/0F	12 months	University of Missouri UMRADIL, Columbia, MO Receipt Date: 9/5/06 Report Date: 11/15/06
	F344 x BN F1	3M/0F	12 months	
	BN/RijHsd	2M/0F	23 months	

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
<i>M. pulmonis</i>	MFI	0/7	
Sendai	MFI	0/7	
RCV/SDAV	MFI	0/7	
Parvovirus	MFI	0/7	
KRV	MFI	0/7	
H-1	MFI	0/7	
PVM	MFI	0/7	
REO 3	MFI	0/7	
TMEV GDVII	MFI	0/2	
LCM	MFI	0/2	
Hantaan	MFI	0/2	
<i>E. cuniculi</i>	MFI	0/2	

BACTERIOLOGY

Agent	No. Pos./No. Tested	Comments
<i>Salmonella spp.</i>	0/7	Nasopharynx/cecum cultures The bacteria isolated from the oropharynx and cecum are opportunistic or normal flora of the rat.
<i>Pasteurella pneumotropica</i>	0/7	
<i>Pasteurella spp.</i>	0/7	
<i>Bordetella bronchiseptica</i>	0/7	
<i>Pseudomonas aeruginosa</i>	0/7	
<i>Citrobacter rodentium</i>	0/7	
<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 sp. Group B beta</i>	0/7	

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RATS Barrier 208B

PCR	Results	Comments
<i>Mycoplasma pulmonis</i>	No. Pos./No. Tested 0/7	*Pooled samples.
<i>Helicobacter hepaticus</i>	0/7*	

PARASITOLOGY		
Type and Test	Results	Comments
Ectoparasites Test(s): Direct pelage	No. Pos./No. Tested 0/7	External parasites were not observed in any rat.
Endoparasites Test(s): Direct, Gross, and Microscopic (intestines & bladder)	No. Pos./No. Tested 0/7	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:		Lesions are incidental and/or consistent with normal aging process and are not indicative of infection with murine adventitious pathogens.
Lymphoid hyperplasia lung	2/2	
Renal perivascular lymphoid infiltrates	1/2	
Intimal mineralization-lung	1/2	

AVAILABILITY		
Rats obtained from NIA-NIH aging colonies maintained in one maximum security barrier by Harlan in Frederick, Maryland. The combined census of these colonies at the time of referenced monitoring is tabulated below:		
Virgin Male (12 - 41 months of age)		1,131
Virgin Female (21 - 46 months of age)		155
Total Census:		1,286

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