

HARLAN ANIMAL COLONIES
HEALTH EVALUATION SUMMARY

Enclosure 2
March 19, 2009
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: 1/19/09	F344/NHsd	8M/2F	15 - 20 months	University of Missouri MURADIL, Columbia, MO Receipt Date: 1/20/09 Report Date: 3/16/09

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	0/10	
RCV/SDAV	MFI	0/10	
Parvoviruses	MFI	0/10	
KRV	MFI	0/10	
H-1	MFI	0/10	
PVM	MFI	0/10	
<i>M. pulmonis</i>	MFI	0/10	
Reo 3	MFI	0/4	
TMEV GDVII	MFI	0/4	
MAD	MFI	0/4	
LCM	MFI	0/4	
Hantaan	MFI	0/4	

BACTERIOLOGY		
Agent	No. Pos/No. Tested	Comments
<i>Mycoplasma pulmonis</i>	0/10	Nasopharynx/lung/cecum/uterine cultures
<i>Salmonella spp.</i>	0/10	
<i>Pasteurella pneumotropica</i>	0/8	
<i>Pseudomonas aeruginosa</i>	0/10	
<i>Citrobacter rodentium</i>	0/10	
<i>Corynebacterium kutscheri</i>	0/8	
<i>Klebsiella pneumoniae</i>	6/10	
<i>Klebsiella oxytoca</i>	0/10	
<i>Staphylococcus aureus</i>	1/8	
<i>Streptococcus pneumoniae</i>	0/8	The bacteria isolated from the nasopharynx and
<i>Streptococcus sp. Group B beta</i>	0/8	cecum are opportunistic or normal flora of the rat.

PCR	No. Pos./ No. Tested	Comments
<i>Mycoplasma pulmonis</i>	0/10	
<i>Helicobacter hepaticus</i>	0/10	

HARLAN ANIMAL COLONIES
HEALTH EVALUATION SUMMARY

Enclosure 2
March 19, 2009
Page 2 of 2

CONTRACT N01-AG-7-2113

RATS Barrier 202C

PARASITOLOGY		
Type and Test	No. Pos./No. Tested	Comments
Ectoparasites Test(s): Direct pelage	0/10	External parasites were not observed in any rat.
Endoparasites Test(s): Direct, Gross, and Microscopic (intestines & bladder)	0/10	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	9/10	Lesions are incidental and/or consistent with normal aging process and are not indicative of infection with murine adventitious pathogens.
Harderian gland lymphoid infiltrate	5/10	
Myocardial degeneration	3/10	
Nephrocalcinosis	0/10	
Biliary hyperplasia	6/10	
Acute hepatic necrosis	0/10	
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 (22 - 30 months of age)	384
Virgin - Male (14 - 31 months of age)	2,136
Virgin - Female (14 - 31 months of age)	1,589
Total Census:	4,109

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
3-19-2009

HARLAN ANIMAL COLONIES
HEALTH EVALUATION SUMMARY

Enclosure 2
March 19, 2009
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	F344/NHsd	8M/2F	15 - 20 months	University of Missouri MURADIL, Columbia, MO
Ship Date: 1/19/09				Receipt Date: 1/20/09 Report Date: 3/16/09

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	0/10	
RCV/SDAV	MFI	0/10	
Parvoviruses	MFI	0/10	
KRV	MFI	0/10	
H-1	MFI	0/10	
PVM	MFI	0/10	
<i>M. pulmonis</i>	MFI	0/10	
Reo 3	MFI	0/6	
TMEV GDVII	MFI	0/6	
MAD	MFI	0/6	
LCM	MFI	0/6	
Hantaan	MFI	0/6	

BACTERIOLOGY			
Agent	No. Pos./No. Tested	Comments	
<i>Mycoplasma pulmonis</i>	0/10	Nasopharynx/lung/cecum/uterine cultures	
<i>Salmonella spp.</i>	0/10		
<i>Pasteurella pneumotropica</i>	0/5		
<i>Pseudomonas aeruginosa</i>	0/10		
<i>Citrobacter rodentium</i>	0/10		
<i>Corynebacterium kutscheri</i>	0/5		
<i>Klebsiella pneumoniae</i>	0/10		
<i>Klebsiella oxytoca</i>	0/10		
<i>Staphylococcus aureus</i>	1/5		
<i>Streptococcus pneumoniae</i>	0/5	The bacteria isolated from the nasopharynx and	
<i>Streptococcus sp. Group B beta</i>	0/5	cecum are opportunistic or normal flora of the rat.	

PCR	No. Pos./ No. Tested	Comments
<i>Mycoplasma pulmonis</i>	0/10	
<i>Helicobacter sp.</i>	0/6	

HARLAN ANIMAL COLONIES
HEALTH EVALUATION SUMMARY

Enclosure 2
March 19, 2009
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	0/10	External parasites were not observed in any rat.
Endoparasites Test(s): Direct, Gross, and Microscopic (intestines & bladder)	9/10*	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	
Gross:	None significant		Overall frequency of lesions in these rats is low.
Histologic:			
Lymphoid hyperplasia lung	9/10		Lesions are incidental and / or consistent with the normal aging process and are not indicative of infection with murine adventitious agents.
Nephrosis	4/10		
Harderian gland lymphoid infiltrate	6/10		
Myocardial degeneration	4/10		
Renal tubule regeneration	0/10		
Acute hepatic necrosis	1/10		
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 (23 - 25 months of age)	21
Virgin - Male (14 - 30 months of age)	3,523
Virgin - Female (14 - 31 months of age)	1,258
Total Census:	4,082

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. 3-19-2009
Senior Veterinarian