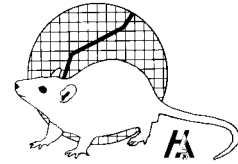


# Hilltop Lab Animals, Inc.

Serving science for over 85 years



## Viral Antibody Profile March 31, 2017

The following viral antibody profiles are the result of extensive serology. Guinea pig profiles include *Encephalitozoon cuniculi*. Profiles include CVF<sup>®</sup> rats, mice and guinea pigs being supplied by Hilltop Lab Animals, Inc.

### OUTBRED RATS

SD -- H1a<sup>®</sup>:(SD)CVF<sup>®</sup>  
 Wistar – H1a<sup>®</sup>(WI)CVF<sup>®</sup>  
 Long Evans - H1a<sup>®</sup>(LE)CVF<sup>®</sup>  
 Spontaneously Hypertensive -  
 H1a<sup>®</sup>(SHR)CVF<sup>®</sup>

### INBRED RATS

Fischer 344 -- F344/NH1a<sup>®</sup>CVF<sup>®</sup>  
 Lewis -- LEW/H1a<sup>®</sup>CVF<sup>®</sup>

Method	Test	Results
ELISA	CARB	NEG
	GDVII	NEG
	LCM	NEG
	<i>M.arth</i>	NEG
	<i>M.pul</i>	NEG
	PVM	NEG
	RCMV	NEG
	RCV/SDA	NEG
	Reo	NEG
	Send	NEG
IFA	Parvo	NEG
	KRV	NEG
PCR	Helico	NEG

### OUTBRED MICE

Swiss – H1a<sup>®</sup>:(ICR)CVF<sup>®</sup>

### INBRED MICE

BALB/c – BALB/cH1a<sup>®</sup>CVF<sup>®</sup>  
 C57BL/6<sup>+</sup> – C57BL/6NH1a<sup>®</sup>CVF<sup>®</sup>

### HYBRID MICE

IRCF1 – IRCF1/H1a<sup>®</sup>CVF<sup>®</sup>

Method	Test	Results	
ELISA	CARB	NEG	
	ECTRO	NEG	
	EDIM	NEG	
	GDVII	NEG	
	LCM	NEG	
	M.Ad-1	NEG	
	MHV	NEG	
	MNV	NEG	
	MVM	NEG	
	<i>Mpul</i>	NEG	
	MPV1	NEG	
	MPV2	NEG	
	PVM	NEG	
	Poly	NEG	
	Reo	NEG	
	Send	NEG	
	IFA	M.Ad-2	NEG
		MCMV	NEG
PCR	Helico	NEG	

**Hilltop Lab Animals, Inc.**

**131 Hilltop Drive • Scottsdale, Pennsylvania 15683**

**(800) 245-6921 or (724) 887-8480 • FAX: (724) 887-3582 • [www.HilltopLabs.com](http://www.HilltopLabs.com)**

# Hilltop Lab Animals, Inc.

Serving science for over 85 years

Viral Antibody Profile  
(Including CARB and *Mpul.*)

March 31, 2017  
Page 2

OUTBRED GUINEA PIGS  
Hartley – Hla<sup>®</sup>:(HA)CVF<sup>®</sup>

Method	Test	Results
ELISA	LCM	NEG
	PVM	NEG
	Reo <sup>2</sup>	NEG
	Send	NEG
IFA	GP Adeno	NEG
<i>Bordetella</i>		NEG

MPV2 Mouse Parvovirus Type 2  
MVM Minute Virus of Mice  
Parvo Parvovirus  
PVM Pneumonia Virus of Mice  
Poly Polyoma Virus  
RCMV Rat Cytomegalovirus  
RCV/SDA Rat Coronavirus/  
Sialodacryoadenitis Viruses  
Reo Reovirus (Detects Reo 1, 2 & 3)  
Send Sendai Virus

Description of test methods abbreviations:  
ELISA Enzyme Linked Immunosorbent Assay  
IFA Immunofluorescence Assay  
PCR Polymerase Chain Reaction

Description of test abbreviations:  
CARB CAR Bacillus  
Ectro Ectromelia Virus  
EDIM Epizootic Diarrhea of Infant Mice  
GP Adeno Guinea Pig Adenovirus  
GDVII Theiler's Mouse  
Encephalomyelitis Virus  
Helico Helicobacter  
KRV Kilham Rat Virus  
LCM Lymphocytic Choriomeningitis Virus  
M.Ad-1 Mouse Adenovirus (M.Ad-1)  
M.Ad-2 Mouse Adenovirus (M.Ad-2)  
MCMV Murine Cytomegalovirus  
MHV Mouse Hepatitis Virus  
MNV Murine Norovirus  
*M.Arth* *Mycoplasma arthritidis*  
*M.Pul* *Mycoplasma pulmonis*  
MPV1 Mouse Parvovirus Type 1

CVF<sup>®</sup> and Hla<sup>®</sup> are the registered trademarks of Hilltop Lab Animals, Inc., Scottsdale, Pennsylvania 15683.

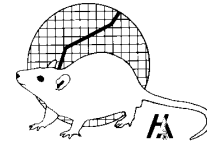
<sup>1</sup> F344 rat and C57BL/6 mouse stock originated from Taconic Farms, Germantown, New York.

<sup>2</sup> Reo in Guinea Pigs (Mouse sentinels all test negative)

Hla\newbind\health\general\HilltopLabs1Q17.doc

# Hilltop Lab Animals, Inc.

Serving science for over 85 years



Gross Pathology • Parasitology • Bacteriology  
March 31, 2017

The following are gross pathology, parasitology and bacteriology profiles for the CVF® rats, mice and guinea pigs currently being supplied by Hilltop Lab Animals, Inc.

	Rats					
	Hla <sup>®</sup> :(SD) CVF <sup>®</sup> (SD)	Hla <sup>®</sup> :(WI) CVF <sup>®</sup> (Wistar)	Hla <sup>®</sup> :(LE) CVF <sup>®</sup> (Long Evans)	Hla <sup>®</sup> :(SHR) CVF <sup>®</sup> (Spontaneously Hypertensive)	F344/NHla <sup>®</sup> CVF <sup>®</sup> (F344 <sup>1</sup> Rats)	LEW/Hla <sup>®</sup> CVF <sup>®</sup> (Lewis)
Gross Pathology*	Normal	Normal	Normal	Normal	Normal	Normal
Parasitology						
External	NEG	NEG	NEG	NEG	NEG	NEG
Duodenum	NEG	NEG	NEG	NEG	NEG	NEG
Ileum	NEG	NEG	NEG	NEG	NEG	NEG
Cecum	NEG	NEG	NEG	NEG	NEG	NEG
Colon	NEG	NEG	NEG	NEG	NEG	NEG
Bladder	NEG	NEG	NEG	NEG	NEG	NEG
Comments:	All tests were negative for helminthes, pathogenic protozoa, ameba and ectoparasites.					
Bacteriology						
Oral	NEG	NEG	NEG	NEG	NEG	NEG
Fecal	NEG	NEG	NEG	NEG	NEG	NEG
Comments:	Primary bacterial pathogens were not detected by aerobic culture techniques.					

	Mice			
	Hla <sup>®</sup> :(ICR) CVF <sup>®</sup> (Swiss)	BALB/cHla <sup>®</sup> CVF <sup>®</sup> (BALB/c)	IRCF1/Hla <sup>®</sup> CVF <sup>®</sup> (IRCF1)	C57BL/6NHla <sup>®</sup> CVF <sup>®</sup> (C57BL/6 <sup>1</sup> )
Gross Pathology*	Normal	Normal	Normal	Normal
Parasitology				
External	NEG	NEG	NEG	NEG
Duodenum	NEG	NEG	NEG	NEG
Ileum	NEG	NEG	NEG	NEG
Cecum	NEG	NEG	NEG	NEG
Colon	NEG	NEG	NEG	NEG
Bladder	NEG	NEG	NEG	NEG
Comments:	All tests were negative for helminthes, pathogenic protozoa, ameba and ectoparasites.			
Bacteriology				
Oral	NEG	NEG	NEG	NEG
Fecal	NEG	NEG	NEG	NEG
Comments:	Primary bacterial pathogens were not detected by aerobic culture techniques.			

**Hilltop Lab Animals, Inc.**  
**131 Hilltop Drive • Scottsdale, Pennsylvania 15683**  
**(800) 245-6921 or (724) 887-8480 • FAX: (724) 887-3582 • [www.HilltopLabs.com](http://www.HilltopLabs.com)**

# Hilltop Lab Animals, Inc.

Serving science for over 85 years

Gross Pathology • Parasitology •  
March 31, 2017

Bacteriology  
Page 2

	Guinea Pigs
	Hla <sup>®</sup> :(HA) CVF <sup>®</sup> (Hartley)
Gross Pathology*	Normal
Parasitology	
External	NEG
Duodenum	NEG
Ileum	NEG
Cecum	NEG
Colon	NEG
Bladder	NEG
Comments:	All tests were negative for helminthes, pathogenic protozoa, ameba and ectoparasites.
Bacteriology	
Oral	NEG
Fecal	NEG
Comments:	Primary bacterial pathogens were not detected by aerobic culture techniques.

The following is offered as supplemental information to the Bacteriology Profile.  
Survey Protocol: Rodent Minimum Requirements

## RESPIRATORY SYSTEM:

### Direct 5% Sheep Blood Trypticase Soy Agar

Examine for:

- *Bordetella bronchiseptica*
- *Streptococcus pneumoniae* (Groups A, B, & C)
- *Pasteurella pneumotropica* and *P. Multocida*
- *Corynebacterium kutscheri*
- *Pseudomonas aeruginosa*
- *Klebsiella pneumoniae*
- *Klebsiella oxytoca*

### Direct MacConkey Agar

Examine for:

- *Bordetella bronchiseptica*
- *Pasteurella pneumotropica* (abortive colonies)
- *Pseudomonas aeruginosa*
- *Klebsiella pneumoniae*
- *Klebsiella oxytoca*

### TSB Broth for subculture at 24 hours to Phenylethyl Agar and MacConkey Agar

Examine Phenylethyl Agar for:

- *Streptococcus pneumoniae*
- *Corynebacterium kutscheri*

Examine MacConkey Agar for:

- *Bordetella bronchiseptica*
- *Pseudomonas aeruginosa*
- *Klebsiella pneumoniae*
- *Klebsiella oxytoca*

## GASTROINTESTINAL SYSTEM:

### Selenite Broth: Subculture at 24 hours to Brilliant Green Agar and MacConkey Agar

Examine both plates for Salmonella species

- *Pseudomonas aeruginosa*
- *Yersinia enterocolitica*

### Direct 5% Sheep Blood Trypticase Soy Agar and MacConkey Agar

Examine both plates for *Klebsiella pneumoniae*

- *Klebsiella oxytoca*
- *Citrobacter freundii* (Var. 4280 mice)

### GN Broth: Subculture at 24 hours to 5% Sheep Blood and MacConkey Agar Plates

Examine both plates for *Klebsiella pneumoniae*

- *Klebsiella oxytoca*
- *Citrobacter freundii* (Var. 4280 mice)
- *Yersinia enterocolitica*
- *Pseudomonas aeruginosa*
- *Shigella* spp.

Testing done annually for Rat Bite Fever -  
*Streptobacillusmoniliformis*

\*Tissues examined microscopically: heart, lung, liver, kidney, spleen, pancreas, salivary gland and node, jejunum, ileum, cecum, brain, eyes, hardierian glands, nasal passages, middle ears.

Information provided by:

Hilltop Lab Animals, Inc.  
131 Hilltop Drive  
Scottsdale, PA 15683  
(800) 245-6921 or (724) 887-8480  
FAX: (724) 887-3582

Hla\newbind\health\general\HilltopLabs1Q17.doc