

2023 年 4 月 24 日

お客様 各位

生産動物 微生物モニタリング結果報告書

(2023 年 4 月度)

試験責任者：品質保証部

マネジャー 佐藤征直



ジャクソン・ラボラトリー・ジャパン株式会社
モニタリングセンター

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Immunodeficient Mouse SPF/VAF Report (Barrier)

Japan

The Jackson Laboratory Japan, Inc.

Location

Atsugi A11 Mice

Health Status

Immunodeficient

Summary Item	Method	Primary Lab	Most Recent		Past 18 Months
			Test Date	Positive / Tested	Positive / Tested
Virology					
SEND ac	MFIA/PCR	RADS JPN	10-Apr-2023	0 / 16	0 / 262
PVM ac	MFIA/PCR	RADS JPN	10-Apr-2023	0 / 16	0 / 262
MHV ace	MFIA/PCR	RADS JPN	10-Apr-2023	0 / 16	0 / 280
MVM ac	MFIA/PCR	RADS JPN	10-Apr-2023	0 / 16	0 / 262
MPV ac	MFIA/PCR	RADS JPN	10-Apr-2023	0 / 16	0 / 262
MNV ace	MFIA/PCR	RADS JPN	10-Apr-2023	0 / 16	0 / 280
TMEV (GDVII) ac	MFIA/PCR	RADS JPN	10-Apr-2023	0 / 16	0 / 262
REO ac	MFIA/PCR	RADS JPN	10-Apr-2023	0 / 16	0 / 262
EDIM ac	MFIA/PCR	RADS JPN	10-Apr-2023	0 / 16	0 / 262
LCMV ad	MFIA/PCR	RADS JPN	06-Feb-2023	0 / 10	0 / 70
ECTRO ad	MFIA/PCR	RADS JPN	06-Feb-2023	0 / 10	0 / 70
MAV ad	MFIA/PCR	RADS JPN	06-Feb-2023	0 / 10	0 / 70
MCMV ad	MFIA/PCR	RADS JPN	06-Feb-2023	0 / 10	0 / 70
K ad	MFIA/PCR	RADS JPN	06-Feb-2023	0 / 10	0 / 70
POLY ad	MFIA/PCR	RADS JPN	06-Feb-2023	0 / 10	0 / 70
HANT ad	MFIA/PCR	RADS JPN	06-Feb-2023	0 / 10	0 / 70
MTLV ad	MFIA/PCR	RADS JPN	06-Feb-2023	0 / 10	0 / 70
LDV ad	MFIA/PCR	RADS JPN	06-Feb-2023	0 / 10	0 / 70
MuCPV ad	PCR	RADS JPN	06-Feb-2023	0 / 10	0 / 60
Microbiology					
B. bronchiseptica ade	Culture/PCR	RADS JPN	29-Mar-2023	0 / 1	0 / 108
C. rodentium ade	Culture/PCR	RADS JPN	29-Mar-2023	0 / 1	0 / 108
F. rodentium (CAR Bacillus) ad	MFIA/PCR	RADS JPN	06-Feb-2023	0 / 10	0 / 70
C. kutscheri ade	Culture/PCR	RADS JPN	29-Mar-2023	0 / 1	0 / 108
H. bilis ade	PCR	RADS JPN	29-Mar-2023	0 / 1	0 / 108
H. hepaticus ade	PCR	RADS JPN	29-Mar-2023	0 / 1	0 / 108
Helicobacter sp. ade	PCR	RADS JPN	29-Mar-2023	0 / 1	0 / 108
M. pulmonis ac	MFIA/PCR	RADS JPN	10-Apr-2023	0 / 16	0 / 282
R. heylII (P.pneumotropica) ade	Culture/PCR	RADS JPN	29-Mar-2023	0 / 1	0 / 108
R. pneumotropicus (P.pneumotropica) ade	Culture/PCR	RADS JPN	29-Mar-2023	0 / 1	0 / 108
P. aeruginosa ade	Culture/PCR	RADS JPN	29-Mar-2023	0 / 1	0 / 108
Salmonella sp. ade	Culture/PCR	RADS JPN	29-Mar-2023	0 / 1	0 / 108
Staph. aureus ade	Culture/PCR	RADS JPN	29-Mar-2023	0 / 1	0 / 108
S. moniliformis ad	PCR	RADS JPN	06-Feb-2023	0 / 15	0 / 90
Strep. pneumoniae ade	Culture/PCR	RADS JPN	29-Mar-2023	0 / 1	0 / 108
CPIL (Tyzzer's Disease) ac	Exam/MFIA/PCR	RADS JPN	10-Apr-2023	0 / 16	0 / 282
Pneumocystis sp. ad	PCR	RADS JPN	06-Feb-2023	0 / 5	0 / 30
C. bovis ade	PCR	RADS JPN	29-Mar-2023	0 / 1	0 / 108

Immunodeficient Mouse SPF/VAF Report (Barrier)

Japan

The Jackson Laboratory Japan, Inc.

Location

Atsugi A11 Mice

Health Status

Immunodeficient

Summary Item	Method	Primary Lab	Most Recent		Past 18 Months
			Test Date	Positive / Tested	Positive / Tested
Pathology					
Gross Exam df	Exam	RADS JPN	06-Feb-2023	0 / 15	0 / 90
Parasitology					
Ectoparasites ade	Exam/PCR	RADS JPN	29-Mar-2023	0 / 1	0 / 108
Helminths ade	Exam/PCR	RADS JPN	29-Mar-2023	0 / 1	0 / 108
Enteric Protozoa ade	Exam/PCR	RADS JPN	29-Mar-2023	0 / 1	0 / 88
E. cuniculi ad	MFIA/PCR	RADS JPN	06-Feb-2023	0 / 10	0 / 70

* dashes indicate not tested during specified period.

HOUSED STRAINS

Outbred
NU/NU CD1
NU+ CD1

Inbred
NU/NU B/C
NU+ B/C

COLONY POLICY FOR POSITIVE RESULT: a = immediate termination; b = no action

TESTING SCHEDULE: c = screened every month; d = screened quarterly; e = additional PCR is done every month by environmental swabs;

Other

f = results do not include incidental or strain related findings

Immunodeficient Mouse SPF/VAF Report (Barrier)

Japan

The Jackson Laboratory Japan, Inc.

Location

Atsugi A12 Mice

Health Status

Immunodeficient

Summary Item	Method	Primary Lab	Most Recent		Past 18 Months
			Test Date	Positive / Tested	Positive / Tested
Virology					
SEND ac	MFIA/PCR	RADS JPN	10-Apr-2023	0 / 16	0 / 262
PVM ac	MFIA/PCR	RADS JPN	10-Apr-2023	0 / 16	0 / 262
MHV ace	MFIA/PCR	RADS JPN	10-Apr-2023	0 / 16	0 / 280
MVM ac	MFIA/PCR	RADS JPN	10-Apr-2023	0 / 16	0 / 262
MPV ac	MFIA/PCR	RADS JPN	10-Apr-2023	0 / 16	0 / 262
MNV ace	MFIA/PCR	RADS JPN	10-Apr-2023	0 / 16	0 / 280
TMEV (GDVII) ac	MFIA/PCR	RADS JPN	10-Apr-2023	0 / 16	0 / 262
REO ac	MFIA/PCR	RADS JPN	10-Apr-2023	0 / 16	0 / 262
EDIM ac	MFIA/PCR	RADS JPN	10-Apr-2023	0 / 16	0 / 262
LCMV ad	MFIA/PCR	RADS JPN	06-Feb-2023	0 / 10	0 / 70
ECTRO ad	MFIA/PCR	RADS JPN	06-Feb-2023	0 / 10	0 / 70
MAV ad	MFIA/PCR	RADS JPN	06-Feb-2023	0 / 10	0 / 70
MCMV ad	MFIA/PCR	RADS JPN	06-Feb-2023	0 / 10	0 / 70
K ad	MFIA/PCR	RADS JPN	06-Feb-2023	0 / 10	0 / 70
POLY ad	MFIA/PCR	RADS JPN	06-Feb-2023	0 / 10	0 / 70
HANT ad	MFIA/PCR	RADS JPN	06-Feb-2023	0 / 10	0 / 70
MTLV ad	MFIA/PCR	RADS JPN	06-Feb-2023	0 / 10	0 / 70
LDV ad	MFIA/PCR	RADS JPN	06-Feb-2023	0 / 10	0 / 70
MuCPV ad	PCR	RADS JPN	06-Feb-2023	0 / 10	0 / 60
Microbiology					
B. bronchiseptica ade	Culture/PCR	RADS JPN	29-Mar-2023	0 / 1	0 / 108
C. rodentium ade	Culture/PCR	RADS JPN	29-Mar-2023	0 / 1	0 / 108
F. rodentium (CAR Bacillus) ad	MFIA/PCR	RADS JPN	06-Feb-2023	0 / 10	0 / 70
C. kutscheri ade	Culture/PCR	RADS JPN	29-Mar-2023	0 / 1	0 / 108
H. bilis ade	PCR	RADS JPN	29-Mar-2023	0 / 1	0 / 108
H. hepaticus ade	PCR	RADS JPN	29-Mar-2023	0 / 1	0 / 108
Helicobacter sp. ade	PCR	RADS JPN	29-Mar-2023	0 / 1	0 / 108
M. pulmonis ac	MFIA/PCR	RADS JPN	10-Apr-2023	0 / 16	0 / 282
R. heylII (P.pneumotropica) ade	Culture/PCR	RADS JPN	29-Mar-2023	0 / 1	0 / 108
R. pneumotropicus (P.pneumotropica) ade	Culture/PCR	RADS JPN	29-Mar-2023	0 / 1	0 / 108
P. aeruginosa ade	Culture/PCR	RADS JPN	29-Mar-2023	0 / 1	0 / 108
Salmonella sp. ade	Culture/PCR	RADS JPN	29-Mar-2023	0 / 1	0 / 108
Staph. aureus ade	Culture/PCR	RADS JPN	29-Mar-2023	0 / 1	0 / 108
S. moniliformis ad	PCR	RADS JPN	06-Feb-2023	0 / 15	0 / 90
Strep. pneumoniae ade	Culture/PCR	RADS JPN	29-Mar-2023	0 / 1	0 / 108
CPIL (Tyzzer's Disease) ac	Exam/MFIA/PCR	RADS JPN	10-Apr-2023	0 / 16	0 / 282
Pneumocystis sp. ad	PCR	RADS JPN	06-Feb-2023	0 / 5	0 / 30
C. bovis ade	PCR	RADS JPN	29-Mar-2023	0 / 1	0 / 108

Immunodeficient Mouse SPF/VAF Report (Barrier)

Japan

The Jackson Laboratory Japan, Inc.

Location

Atsugi A12 Mice

Health Status

Immunodeficient

Summary Item	Method	Primary Lab	Most Recent		Past 18 Months
			Test Date	Positive / Tested	Positive / Tested
Pathology					
Gross Exam df	Exam	RADS JPN	06-Feb-2023	0 / 15	0 / 90
Parasitology					
Ectoparasites ade	Exam/PCR	RADS JPN	29-Mar-2023	0 / 1	0 / 108
Helminths ade	Exam/PCR	RADS JPN	29-Mar-2023	0 / 1	0 / 108
Enteric Protozoa ade	Exam/PCR	RADS JPN	29-Mar-2023	0 / 1	0 / 88
E. cuniculi ad	MFIA/PCR	RADS JPN	06-Feb-2023	0 / 10	0 / 70

* dashes indicate not tested during specified period.

HOUSED STRAINS

Inbred
NU/NU B/C
NU+ B/C

COLONY POLICY FOR POSITIVE RESULT: a = immediate termination; b = no action

TESTING SCHEDULE: c = screened every month; d = screened quarterly; e = additional PCR is done every month by environmental swabs;

Other

f = results do not include incidental or strain related findings

Mouse SPF/VAF Report

Japan

The Jackson Laboratory Japan, Inc.

Location

Atsugi A14 Mice

Health Status

SPF / VAF

Summary Item	Method	Primary Lab	Most Recent		Past 18 Months
			Test Date	Positive / Tested	Positive / Tested
Virology					
SEND ac	MFIA/PCR	RADS JPN	10-Apr-2023	0 / 16	0 / 262
PVM ac	MFIA/PCR	RADS JPN	10-Apr-2023	0 / 16	0 / 262
MHV ace	MFIA/PCR	RADS JPN	10-Apr-2023	0 / 16	0 / 280
MVM ac	MFIA/PCR	RADS JPN	10-Apr-2023	0 / 16	0 / 262
MPV ac	MFIA/PCR	RADS JPN	10-Apr-2023	0 / 16	0 / 262
MNV ace	MFIA/PCR	RADS JPN	10-Apr-2023	0 / 16	0 / 280
TMEV (GDVII) ac	MFIA/PCR	RADS JPN	10-Apr-2023	0 / 16	0 / 262
REO ac	MFIA/PCR	RADS JPN	10-Apr-2023	0 / 16	0 / 262
EDIM ac	MFIA/PCR	RADS JPN	10-Apr-2023	0 / 16	0 / 262
LCMV ad	MFIA/PCR	RADS JPN	06-Feb-2023	0 / 10	0 / 70
ECTRO ad	MFIA/PCR	RADS JPN	06-Feb-2023	0 / 10	0 / 70
MAV ad	MFIA/PCR	RADS JPN	06-Feb-2023	0 / 10	0 / 70
MCMV ad	MFIA/PCR	RADS JPN	06-Feb-2023	0 / 10	0 / 70
K ad	MFIA/PCR	RADS JPN	06-Feb-2023	0 / 10	0 / 70
POLY ad	MFIA/PCR	RADS JPN	06-Feb-2023	0 / 10	0 / 70
HANT ad	MFIA/PCR	RADS JPN	06-Feb-2023	0 / 10	0 / 70
MTLV ad	MFIA/PCR	RADS JPN	06-Feb-2023	0 / 10	0 / 70
LDV ad	MFIA/PCR	RADS JPN	06-Feb-2023	0 / 10	0 / 70
MuCPV bd	PCR	RADS JPN	06-Feb-2023	0 / 5	0 / 30
Microbiology					
B. bronchiseptica ade	Culture/PCR	RADS JPN	29-Mar-2023	0 / 1	0 / 88
C. rodentium ade	Culture/PCR	RADS JPN	29-Mar-2023	0 / 1	0 / 108
F. rodentium (CAR Bacillus) ad	MFIA/PCR	RADS JPN	06-Feb-2023	0 / 10	0 / 70
C. kutscheri ade	Culture/PCR	RADS JPN	29-Mar-2023	0 / 1	0 / 88
H. bilis ade	PCR	RADS JPN	29-Mar-2023	0 / 1	0 / 88
H. hepaticus ade	PCR	RADS JPN	29-Mar-2023	0 / 1	0 / 88
Helicobacter sp. ade	PCR	RADS JPN	29-Mar-2023	0 / 1	0 / 88
M. pulmonis ac	MFIA/PCR	RADS JPN	10-Apr-2023	0 / 16	0 / 262
R. heyltii (P.pneumotropica) ade	Culture/PCR	RADS JPN	29-Mar-2023	0 / 1	0 / 88
R. pneumotropicus (P.pneumotropica) ade	Culture/PCR	RADS JPN	29-Mar-2023	0 / 1	0 / 88
P. aeruginosa bd	Culture/PCR	RADS JPN	06-Feb-2023	0 / 10	0 / 70
Salmonella sp. ade	Culture/PCR	RADS JPN	29-Mar-2023	0 / 1	0 / 88
S. moniliformis ad	PCR	RADS JPN	06-Feb-2023	0 / 10	0 / 70
Strep. pneumoniae ade	Culture/PCR	RADS JPN	29-Mar-2023	0 / 1	0 / 88
CPIL (Tyzzer's Disease) ac	Exam/MFIA/PCR	RADS JPN	10-Apr-2023	0 / 16	0 / 282
C. bovis bde	PCR	RADS JPN	29-Mar-2023	0 / 1	0 / 88
Pathology					
Gross Exam df	Exam	RADS JPN	06-Feb-2023	0 / 15	0 / 90

Mouse SPF/VAF Report

Japan

The Jackson Laboratory Japan, Inc.

Location

Atsugi A14 Mice

Health Status

SPF / VAF

Summary Item	Method	Primary Lab	Most Recent		Past 18 Months
			Test Date	Positive / Tested	Positive / Tested
Parasitology					
Ectoparasites ade	Exam/PCR	RADS JPN	29-Mar-2023	0 / 1	0 / 88
Helminths ade	Exam/PCR	RADS JPN	29-Mar-2023	0 / 1	0 / 108
Enteric Protozoa ade	Exam/PCR	RADS JPN	29-Mar-2023	0 / 1	0 / 88
E. cuniculi ad	MFIA/PCR	RADS JPN	06-Feb-2023	0 / 10	0 / 70

* dashes indicate not tested during specified period.

HOUSED STRAINS

Outbred
CD-1

Inbred
B6 ALBINO
CBA/J
NC/CRJ
SJL

COLONY POLICY FOR POSITIVE RESULT: a = immediate termination; b = no action

TESTING SCHEDULE: c = screened every month; d = screened quarterly; e = additional PCR is done every month by environmental swabs;

Other

f = results do not include incidental or strain related findings

Rat SPF/VAF Report

Japan

The Jackson Laboratory Japan, Inc.

Location

Atsugi A21 Rats

Health Status

SPF / VAF

Summary Item	Method	Primary Lab	Most Recent		Past 18 Months
			Test Date	Positive / Tested	Positive / Tested
Virology					
SEND ac	MFIA/PCR	RADS JPN	03-Apr-2023	0 / 16	0 / 262
PVM ac	MFIA/PCR	RADS JPN	03-Apr-2023	0 / 16	0 / 262
SDAV ace	MFIA/PCR	RADS JPN	03-Apr-2023	0 / 16	0 / 280
KRV ac	MFIA/PCR	RADS JPN	03-Apr-2023	0 / 16	0 / 262
H1 ac	MFIA/PCR	RADS JPN	03-Apr-2023	0 / 16	0 / 262
RPV ac	MFIA/PCR	RADS JPN	03-Apr-2023	0 / 16	0 / 262
RMV ac	MFIA/PCR	RADS JPN	03-Apr-2023	0 / 16	0 / 262
REO ac	MFIA/PCR	RADS JPN	03-Apr-2023	0 / 16	0 / 262
RTV ac	MFIA/PCR	RADS JPN	03-Apr-2023	0 / 16	0 / 262
LCMV ad	MFIA/PCR	RADS JPN	13-Feb-2023	0 / 10	0 / 70
HANT ad	MFIA/PCR	RADS JPN	13-Feb-2023	0 / 10	0 / 70
MAV ad	MFIA/PCR	RADS JPN	13-Feb-2023	0 / 10	0 / 70
Microbiology					
B. bronchiseptica ade	Culture/PCR	RADS JPN	29-Mar-2023	0 / 1	0 / 88
F. rodentium (CAR Bacillus) ad	MFIA/PCR	RADS JPN	13-Feb-2023	0 / 10	0 / 70
C. kutscheri ade	Culture/PCR	RADS JPN	29-Mar-2023	0 / 1	0 / 88
H. bilis ade	PCR	RADS JPN	29-Mar-2023	0 / 1	0 / 88
H. hepaticus ade	PCR	RADS JPN	29-Mar-2023	0 / 1	0 / 88
Helicobacter sp. ade	PCR	RADS JPN	29-Mar-2023	0 / 1	0 / 88
M. pulmonis ac	MFIA/PCR	RADS JPN	03-Apr-2023	0 / 16	0 / 262
R. heylII (P.pneumotropica) ade	Culture/PCR	RADS JPN	29-Mar-2023	0 / 1	0 / 88
R. pneumotropicus (P.pneumotropica) ade	Culture/PCR	RADS JPN	29-Mar-2023	0 / 1	0 / 88
P. aeruginosa bd	Culture/PCR	RADS JPN	13-Feb-2023	0 / 10	0 / 70
Salmonella sp. ade	Culture/PCR	RADS JPN	29-Mar-2023	0 / 1	0 / 88
S. moniliformis ad	PCR	RADS JPN	13-Feb-2023	0 / 10	0 / 70
Strep. pneumoniae ade	Culture/PCR	RADS JPN	29-Mar-2023	0 / 1	0 / 88
CPIL (Tyzzer's Disease) ac	Exam/MFIA/PCR	RADS JPN	03-Apr-2023	0 / 16	0 / 282
Pneumocystis sp. ac	MFIA/PCR	RADS JPN	03-Apr-2023	0 / 16	0 / 262
C. bovis bde	PCR	RADS JPN	29-Mar-2023	0 / 1	0 / 88
Pathology					
Gross Exam df	Exam	RADS JPN	13-Feb-2023	0 / 15	0 / 90
Parasitology					
Ectoparasites ade	Exam/PCR	RADS JPN	29-Mar-2023	0 / 1	0 / 88
Helminths ade	Exam/PCR	RADS JPN	29-Mar-2023	0 / 1	0 / 108
Enteric Protozoa ade	Exam/PCR	RADS JPN	29-Mar-2023	0 / 1	0 / 88
E. cuniculi ad	MFIA/PCR	RADS JPN	13-Feb-2023	0 / 10	0 / 70

* dashes indicate not tested during specified period.

Rat SPF/VAF Report

Japan

The Jackson Laboratory Japan, Inc.

Location

Atsugi A21 Rats

Health Status

SPF / VAF

Summary Item	Method	Primary Lab	Most Recent		Past 18 Months
			Test Date	Positive / Tested	Positive / Tested
HOUSED STRAINS					
	Outbred				
	CD				
	WISTAR				

COLONY POLICY FOR POSITIVE RESULT: a = immediate termination; b = no action

TESTING SCHEDULE: c = screened every month; d = screened quarterly; e = additional PCR is done every month by environmental swabs;

Other

f = results do not include incidental or strain related findings

Mouse SPF/VAF Report

Japan

The Jackson Laboratory Japan, Inc.

Location

Atsugi A22 Mice

Health Status

SPF / VAF

Summary Item	Method	Primary Lab	Most Recent		Past 18 Months
			Test Date	Positive / Tested	Positive / Tested
Virology					
SEND ac	MFIA/PCR	RADS JPN	03-Apr-2023	0 / 16	0 / 262
PVM ac	MFIA/PCR	RADS JPN	03-Apr-2023	0 / 16	0 / 262
MHV ace	MFIA/PCR	RADS JPN	03-Apr-2023	0 / 16	0 / 280
MVM ac	MFIA/PCR	RADS JPN	03-Apr-2023	0 / 16	0 / 262
MPV ac	MFIA/PCR	RADS JPN	03-Apr-2023	0 / 16	0 / 262
MNV ace	MFIA/PCR	RADS JPN	03-Apr-2023	0 / 16	0 / 280
TMEV (GDVII) ac	MFIA/PCR	RADS JPN	03-Apr-2023	0 / 16	0 / 262
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EDIM ac	MFIA/PCR	RADS JPN	03-Apr-2023	0 / 16	0 / 262
LCMV ad	MFIA/PCR	RADS JPN	13-Feb-2023	0 / 10	0 / 70
ECTRO ad	MFIA/PCR	RADS JPN	13-Feb-2023	0 / 10	0 / 70
MAV ad	MFIA/PCR	RADS JPN	13-Feb-2023	0 / 10	0 / 70
MCMV ad	MFIA/PCR	RADS JPN	13-Feb-2023	0 / 10	0 / 70
K ad	MFIA/PCR	RADS JPN	13-Feb-2023	0 / 10	0 / 70
POLY ad	MFIA/PCR	RADS JPN	13-Feb-2023	0 / 10	0 / 70
HANT ad	MFIA/PCR	RADS JPN	13-Feb-2023	0 / 10	0 / 70
MTLV ad	MFIA/PCR	RADS JPN	13-Feb-2023	0 / 10	0 / 70
LDV ad	MFIA/PCR	RADS JPN	13-Feb-2023	0 / 10	0 / 70
MuCPV bd	PCR	RADS JPN	13-Feb-2023	0 / 5	0 / 30
Microbiology					
B. bronchiseptica ade	Culture/PCR	RADS JPN	29-Mar-2023	0 / 1	0 / 88
C. rodentium ade	Culture/PCR	RADS JPN	29-Mar-2023	0 / 1	0 / 108
F. rodentium (CAR Bacillus) ad	MFIA/PCR	RADS JPN	13-Feb-2023	0 / 10	0 / 70
C. kutscheri ade	Culture/PCR	RADS JPN	29-Mar-2023	0 / 1	0 / 88
H. bilis ade	PCR	RADS JPN	29-Mar-2023	0 / 1	0 / 88
H. hepaticus ade	PCR	RADS JPN	29-Mar-2023	0 / 1	0 / 88
Helicobacter sp. ade	PCR	RADS JPN	29-Mar-2023	0 / 1	0 / 88
M. pulmonis ac	MFIA/PCR	RADS JPN	03-Apr-2023	0 / 16	0 / 262
R. heylII (P.pneumotropica) ade	Culture/PCR	RADS JPN	29-Mar-2023	0 / 1	0 / 88
R. pneumotropicus (P.pneumotropica) ade	Culture/PCR	RADS JPN	29-Mar-2023	0 / 1	0 / 88
P. aeruginosa bd	Culture/PCR	RADS JPN	13-Feb-2023	0 / 10	0 / 70
Salmonella sp. ade	Culture/PCR	RADS JPN	29-Mar-2023	0 / 1	0 / 88
S. moniliformis ad	PCR	RADS JPN	13-Feb-2023	0 / 10	0 / 70
Strep. pneumoniae ade	Culture/PCR	RADS JPN	29-Mar-2023	0 / 1	0 / 88
CPIL (Tyzzer's Disease) ac	Exam/MFIA/PCR	RADS JPN	03-Apr-2023	0 / 16	0 / 282
C. bovis bde	PCR	RADS JPN	29-Mar-2023	0 / 1	0 / 88
Pathology					
Gross Exam df	Exam	RADS JPN	13-Feb-2023	0 / 15	0 / 90

Mouse SPF/VAF Report

Japan

The Jackson Laboratory Japan, Inc.

Location

Atsugi A22 Mice

Health Status

SPF / VAF

Summary Item	Method	Primary Lab	Most Recent		Past 18 Months
			Test Date	Positive / Tested	Positive / Tested
Parasitology					
Ectoparasites ade	Exam/PCR	RADS JPN	29-Mar-2023	0 / 1	0 / 88
Helminths ade	Exam/PCR	RADS JPN	29-Mar-2023	0 / 1	0 / 108
Enteric Protozoa ade	Exam/PCR	RADS JPN	29-Mar-2023	0 / 1	0 / 88
E. cuniculi ad	MFIA/PCR	RADS JPN	13-Feb-2023	0 / 10	0 / 70

* dashes indicate not tested during specified period.

HOUSED STRAINS

Inbred	Hybrid
BALB/C	CDF-1
DBA/1	
DBA/2	

COLONY POLICY FOR POSITIVE RESULT: a = immediate termination; b = no action

TESTING SCHEDULE: c = screened every month; d = screened quarterly; e = additional PCR is done every month by environmental swabs;

Other

f = results do not include incidental or strain related findings

Mouse SPF/VAF Report

Japan

The Jackson Laboratory Japan, Inc.

Location

Atsugi A24 Mice

Health Status

SPF / VAF

Summary Item	Method	Primary Lab	Most Recent		Past 18 Months
			Test Date	Positive / Tested	Positive / Tested
Virology					
SEND ac	MFIA/PCR	RADS JPN	10-Apr-2023	0 / 16	0 / 262
PVM ac	MFIA/PCR	RADS JPN	10-Apr-2023	0 / 16	0 / 262
MHV ace	MFIA/PCR	RADS JPN	10-Apr-2023	0 / 16	0 / 280
MVM ac	MFIA/PCR	RADS JPN	10-Apr-2023	0 / 16	0 / 262
MPV ac	MFIA/PCR	RADS JPN	10-Apr-2023	0 / 16	0 / 262
MNV ace	MFIA/PCR	RADS JPN	10-Apr-2023	0 / 16	0 / 280
TMEV (GDVII) ac	MFIA/PCR	RADS JPN	10-Apr-2023	0 / 16	0 / 262
REO ac	MFIA/PCR	RADS JPN	10-Apr-2023	0 / 16	0 / 262
EDIM ac	MFIA/PCR	RADS JPN	10-Apr-2023	0 / 16	0 / 262
LCMV ad	MFIA/PCR	RADS JPN	06-Feb-2023	0 / 10	0 / 70
ECTRO ad	MFIA/PCR	RADS JPN	06-Feb-2023	0 / 10	0 / 70
MAV ad	MFIA/PCR	RADS JPN	06-Feb-2023	0 / 10	0 / 70
MCMV ad	MFIA/PCR	RADS JPN	06-Feb-2023	0 / 10	0 / 70
K ad	MFIA/PCR	RADS JPN	06-Feb-2023	0 / 10	0 / 70
POLY ad	MFIA/PCR	RADS JPN	06-Feb-2023	0 / 10	0 / 70
HANT ad	MFIA/PCR	RADS JPN	06-Feb-2023	0 / 10	0 / 70
MTLV ad	MFIA/PCR	RADS JPN	06-Feb-2023	0 / 10	0 / 70
LDV ad	MFIA/PCR	RADS JPN	06-Feb-2023	0 / 10	0 / 70
MuCPV bd	PCR	RADS JPN	06-Feb-2023	0 / 5	0 / 30
Microbiology					
B. bronchiseptica ade	Culture/PCR	RADS JPN	29-Mar-2023	0 / 1	0 / 88
C. rodentium ade	Culture/PCR	RADS JPN	29-Mar-2023	0 / 1	0 / 108
F. rodentium (CAR Bacillus) ad	MFIA/PCR	RADS JPN	06-Feb-2023	0 / 10	0 / 70
C. kutscheri ade	Culture/PCR	RADS JPN	29-Mar-2023	0 / 1	0 / 88
H. bilis ade	PCR	RADS JPN	29-Mar-2023	0 / 1	0 / 88
H. hepaticus ade	PCR	RADS JPN	29-Mar-2023	0 / 1	0 / 88
Helicobacter sp. ade	PCR	RADS JPN	29-Mar-2023	0 / 1	0 / 88
M. pulmonis ac	MFIA/PCR	RADS JPN	10-Apr-2023	0 / 16	0 / 262
R. heylII (P.pneumotropica) ade	Culture/PCR	RADS JPN	29-Mar-2023	0 / 1	0 / 88
R. pneumotropicus (P.pneumotropica) ade	Culture/PCR	RADS JPN	29-Mar-2023	0 / 1	0 / 88
P. aeruginosa bd	Culture/PCR	RADS JPN	06-Feb-2023	0 / 10	0 / 70
Salmonella sp. ade	Culture/PCR	RADS JPN	29-Mar-2023	0 / 1	0 / 88
S. moniliformis ad	PCR	RADS JPN	06-Feb-2023	0 / 10	0 / 70
Strep. pneumoniae ade	Culture/PCR	RADS JPN	29-Mar-2023	0 / 1	0 / 88
CPIL (Tyzzer's Disease) ac	Exam/MFIA/PCR	RADS JPN	10-Apr-2023	0 / 16	0 / 282
C. bovis bde	PCR	RADS JPN	29-Mar-2023	0 / 1	0 / 88
Pathology					
Gross Exam df	Exam	RADS JPN	06-Feb-2023	0 / 15	0 / 90

Mouse SPF/VAF Report

Japan

The Jackson Laboratory Japan, Inc.

Location

Atsugi A24 Mice

Health Status

SPF / VAF

Summary Item	Method	Primary Lab	Most Recent		Past 18 Months
			Test Date	Positive / Tested	Positive / Tested
Parasitology					
Ectoparasites ade	Exam/PCR	RADS JPN	29-Mar-2023	0 / 1	0 / 88
Helminths ade	Exam/PCR	RADS JPN	29-Mar-2023	0 / 1	0 / 108
Enteric Protozoa ade	Exam/PCR	RADS JPN	29-Mar-2023	0 / 1	0 / 88
E. cuniculi ad	MFIA/PCR	RADS JPN	06-Feb-2023	0 / 10	0 / 70

* dashes indicate not tested during specified period.

HOUSED STRAINS

Inbred
C57BL/6J

COLONY POLICY FOR POSITIVE RESULT: a = immediate termination; b = no action

TESTING SCHEDULE: c = screened every month; d = screened quarterly; e = additional PCR is done every month by environmental swabs;

Other

f = results do not include incidental or strain related findings

Mouse SPF/VAF Report

Japan

The Jackson Laboratory Japan, Inc.

Location

Atsugi A25 Mice

Health Status

SPF / VAF

Summary Item	Method	Primary Lab	Most Recent		Past 18 Months
			Test Date	Positive / Tested	Positive / Tested
Virology					
SEND ac	MFIA/PCR	RADS JPN	10-Apr-2023	0 / 16	0 / 230
PVM ac	MFIA/PCR	RADS JPN	10-Apr-2023	0 / 16	0 / 230
MHV ace	MFIA/PCR	RADS JPN	10-Apr-2023	0 / 16	0 / 246
MVM ac	MFIA/PCR	RADS JPN	10-Apr-2023	0 / 16	0 / 230
MPV ac	MFIA/PCR	RADS JPN	10-Apr-2023	0 / 16	0 / 230
MNV ace	MFIA/PCR	RADS JPN	10-Apr-2023	0 / 16	0 / 246
TMEV (GDVII) ac	MFIA/PCR	RADS JPN	10-Apr-2023	0 / 16	0 / 230
REO ac	MFIA/PCR	RADS JPN	10-Apr-2023	0 / 16	0 / 230
EDIM ac	MFIA/PCR	RADS JPN	10-Apr-2023	0 / 16	0 / 230
LCMV ad	MFIA/PCR	RADS JPN	06-Feb-2023	0 / 10	0 / 70
ECTRO ad	MFIA/PCR	RADS JPN	06-Feb-2023	0 / 10	0 / 70
MAV ad	MFIA/PCR	RADS JPN	06-Feb-2023	0 / 10	0 / 70
MCMV ad	MFIA/PCR	RADS JPN	06-Feb-2023	0 / 10	0 / 70
K ad	MFIA/PCR	RADS JPN	06-Feb-2023	0 / 10	0 / 70
POLY ad	MFIA/PCR	RADS JPN	06-Feb-2023	0 / 10	0 / 70
HANT ad	MFIA/PCR	RADS JPN	06-Feb-2023	0 / 10	0 / 70
MTLV ad	MFIA/PCR	RADS JPN	06-Feb-2023	0 / 10	0 / 70
LDV ad	MFIA/PCR	RADS JPN	06-Feb-2023	0 / 10	0 / 70
MuCPV bd	PCR	RADS JPN	06-Feb-2023	0 / 5	0 / 30
Microbiology					
B. bronchiseptica ade	Culture/PCR	RADS JPN	29-Mar-2023	0 / 1	0 / 86
C. rodentium ade	Culture/PCR	RADS JPN	29-Mar-2023	0 / 1	0 / 106
F. rodentium (CAR Bacillus) ad	MFIA/PCR	RADS JPN	06-Feb-2023	0 / 10	0 / 70
C. kutscheri ade	Culture/PCR	RADS JPN	29-Mar-2023	0 / 1	0 / 86
H. bilis ade	PCR	RADS JPN	29-Mar-2023	0 / 1	0 / 86
H. hepaticus ade	PCR	RADS JPN	29-Mar-2023	0 / 1	0 / 86
Helicobacter sp. ade	PCR	RADS JPN	29-Mar-2023	0 / 1	0 / 86
M. pulmonis ac	MFIA/PCR	RADS JPN	10-Apr-2023	0 / 16	0 / 230
R. heylII (P.pneumotropica) ade	Culture/PCR	RADS JPN	29-Mar-2023	0 / 1	0 / 86
R. pneumotropicus (P.pneumotropica) ade	Culture/PCR	RADS JPN	29-Mar-2023	0 / 1	0 / 86
P. aeruginosa bd	Culture/PCR	RADS JPN	06-Feb-2023	0 / 10	0 / 70
Salmonella sp. ade	Culture/PCR	RADS JPN	29-Mar-2023	0 / 1	0 / 86
S. moniliformis ad	PCR	RADS JPN	06-Feb-2023	0 / 10	0 / 70
Strep. pneumoniae ade	Culture/PCR	RADS JPN	29-Mar-2023	0 / 1	0 / 86
CPIL (Tyzzer's Disease) ac	Exam/MFIA/PCR	RADS JPN	10-Apr-2023	0 / 16	0 / 250
C. bovis bde	PCR	RADS JPN	29-Mar-2023	0 / 1	0 / 86
Pathology					
Gross Exam df	Exam	RADS JPN	06-Feb-2023	0 / 15	0 / 90

Mouse SPF/VAF Report

Japan

The Jackson Laboratory Japan, Inc.

Location

Atsugi A25 Mice

Health Status

SPF / VAF

Summary Item	Method	Primary Lab	Most Recent		Past 18 Months
			Test Date	Positive / Tested	Positive / Tested
Parasitology					
Ectoparasites ade	Exam/PCR	RADS JPN	29-Mar-2023	0 / 1	0 / 86
Helminths ade	Exam/PCR	RADS JPN	29-Mar-2023	0 / 1	0 / 106
Enteric Protozoa ade	Exam/PCR	RADS JPN	29-Mar-2023	0 / 1	0 / 86
E. cuniculi ad	MFIA/PCR	RADS JPN	06-Feb-2023	0 / 10	0 / 70

* dashes indicate not tested during specified period.

HOUSED STRAINS

Inbred
C57BL/6J
C57BL/6N

COLONY POLICY FOR POSITIVE RESULT: a = immediate termination; b = no action

TESTING SCHEDULE: c = screened every month; d = screened quarterly; e = additional PCR is done every month by environmental swabs;

Other

f = results do not include incidental or strain related findings

Rat SPF/VAF Report

Japan

The Jackson Laboratory Japan, Inc.

Location

Hino H11 Rats

Health Status

SPF / VAF

Summary Item	Method	Primary Lab	Most Recent		Past 18 Months
			Test Date	Positive / Tested	Positive / Tested
Virology					
SEND ac	MFIA/PCR	RADS JPN	05-Apr-2023	0 / 16	0 / 262
PVM ac	MFIA/PCR	RADS JPN	05-Apr-2023	0 / 16	0 / 262
SDAV ace	MFIA/PCR	RADS JPN	05-Apr-2023	0 / 16	0 / 279
KRV ac	MFIA/PCR	RADS JPN	05-Apr-2023	0 / 16	0 / 262
H1 ac	MFIA/PCR	RADS JPN	05-Apr-2023	0 / 16	0 / 262
RPV ac	MFIA/PCR	RADS JPN	05-Apr-2023	0 / 16	0 / 262
RMV ac	MFIA/PCR	RADS JPN	05-Apr-2023	0 / 16	0 / 262
REO ac	MFIA/PCR	RADS JPN	05-Apr-2023	0 / 16	0 / 262
RTV ac	MFIA/PCR	RADS JPN	05-Apr-2023	0 / 16	0 / 262
LCMV ad	MFIA/PCR	RADS JPN	07-Feb-2023	0 / 10	0 / 70
HANT ad	MFIA/PCR	RADS JPN	07-Feb-2023	0 / 10	0 / 70
MAV ad	MFIA/PCR	RADS JPN	07-Feb-2023	0 / 10	0 / 70
Microbiology					
B. bronchiseptica ade	Culture/PCR	RADS JPN	23-Mar-2023	0 / 1	0 / 87
F. rodentium (CAR Bacillus) ad	MFIA/PCR	RADS JPN	07-Feb-2023	0 / 10	0 / 70
C. kutscheri ade	Culture/PCR	RADS JPN	23-Mar-2023	0 / 1	0 / 87
H. bilis ade	PCR	RADS JPN	23-Mar-2023	0 / 1	0 / 87
H. hepaticus ade	PCR	RADS JPN	23-Mar-2023	0 / 1	0 / 87
Helicobacter sp. ade	PCR	RADS JPN	23-Mar-2023	0 / 1	0 / 87
M. pulmonis ac	MFIA/PCR	RADS JPN	05-Apr-2023	0 / 16	0 / 262
R. heylII (P.pneumotropica) ade	Culture/PCR	RADS JPN	23-Mar-2023	0 / 1	0 / 87
R. pneumotropicus (P.pneumotropica) ade	Culture/PCR	RADS JPN	23-Mar-2023	0 / 1	0 / 87
P. aeruginosa bd	Culture/PCR	RADS JPN	07-Feb-2023	0 / 10	0 / 70
Salmonella sp. ade	Culture/PCR	RADS JPN	23-Mar-2023	0 / 1	0 / 87
S. moniliformis ad	PCR	RADS JPN	07-Feb-2023	0 / 10	0 / 70
Strep. pneumoniae ade	Culture/PCR	RADS JPN	23-Mar-2023	0 / 1	0 / 87
CPIL (Tyzzer's Disease) ac	Exam/MFIA/PCR	RADS JPN	05-Apr-2023	0 / 16	0 / 282
Pneumocystis sp. ac	MFIA/PCR	RADS JPN	05-Apr-2023	0 / 16	0 / 262
C. bovis bde	PCR	RADS JPN	23-Mar-2023	0 / 1	0 / 87
Pathology					
Gross Exam df	Exam	RADS JPN	07-Feb-2023	0 / 15	0 / 90
Parasitology					
Ectoparasites ade	Exam/PCR	RADS JPN	23-Mar-2023	0 / 1	0 / 87
Helminths ade	Exam/PCR	RADS JPN	23-Mar-2023	0 / 1	0 / 107
Enteric Protozoa ade	Exam/PCR	RADS JPN	23-Mar-2023	0 / 1	0 / 87
E. cuniculi ad	MFIA/PCR	RADS JPN	07-Feb-2023	0 / 10	0 / 70

* dashes indicate not tested during specified period.

Rat SPF/VAF Report

Japan

The Jackson Laboratory Japan, Inc.

Location

Hino H11 Rats

Health Status

SPF / VAF

Summary Item	Method	Primary Lab	Most Recent		Past 18 Months
			Test Date	Positive / Tested	Positive / Tested
HOUSED STRAINS					
	Inbred				
	BN				
	F344				
	LEWIS				
	PCK				
	WKY				

COLONY POLICY FOR POSITIVE RESULT: a = immediate termination; b = no action

TESTING SCHEDULE: c = screened every month; d = screened quarterly; e = additional PCR is done every month by environmental swabs;

Other

f = results do not include incidental or strain related findings

Mouse SPF/VAF Report

Japan

The Jackson Laboratory Japan, Inc.

Location

Hino H12 Mice

Health Status

SPF / VAF

Summary Item	Method	Primary Lab	Most Recent		Past 18 Months
			Test Date	Positive / Tested	Positive / Tested
Virology					
SEND ac	MFIA/PCR	RADS JPN	05-Apr-2023	0 / 16	0 / 262
PVM ac	MFIA/PCR	RADS JPN	05-Apr-2023	0 / 16	0 / 262
MHV ace	MFIA/PCR	RADS JPN	05-Apr-2023	0 / 16	0 / 279
MVM ac	MFIA/PCR	RADS JPN	05-Apr-2023	0 / 16	0 / 262
MPV ac	MFIA/PCR	RADS JPN	05-Apr-2023	0 / 16	0 / 262
MNV ace	MFIA/PCR	RADS JPN	05-Apr-2023	0 / 16	0 / 279
TMEV (GDVII) ac	MFIA/PCR	RADS JPN	05-Apr-2023	0 / 16	0 / 262
REO ac	MFIA/PCR	RADS JPN	05-Apr-2023	0 / 16	0 / 262
EDIM ac	MFIA/PCR	RADS JPN	05-Apr-2023	0 / 16	0 / 262
LCMV ad	MFIA/PCR	RADS JPN	07-Feb-2023	0 / 10	0 / 70
ECTRO ad	MFIA/PCR	RADS JPN	07-Feb-2023	0 / 10	0 / 70
MAV ad	MFIA/PCR	RADS JPN	07-Feb-2023	0 / 10	0 / 70
MCMV ad	MFIA/PCR	RADS JPN	07-Feb-2023	0 / 10	0 / 70
K ad	MFIA/PCR	RADS JPN	07-Feb-2023	0 / 10	0 / 70
POLY ad	MFIA/PCR	RADS JPN	07-Feb-2023	0 / 10	0 / 70
HANT ad	MFIA/PCR	RADS JPN	07-Feb-2023	0 / 10	0 / 70
MTLV ad	MFIA/PCR	RADS JPN	07-Feb-2023	0 / 10	0 / 70
LDV ad	MFIA/PCR	RADS JPN	07-Feb-2023	0 / 10	0 / 70
MuCPV bd	PCR	RADS JPN	07-Feb-2023	0 / 5	0 / 30
Microbiology					
B. bronchiseptica ade	Culture/PCR	RADS JPN	23-Mar-2023	0 / 1	0 / 87
C. rodentium ade	Culture/PCR	RADS JPN	23-Mar-2023	0 / 1	0 / 107
F. rodentium (CAR Bacillus) ad	MFIA/PCR	RADS JPN	07-Feb-2023	0 / 10	0 / 70
C. kutscheri ade	Culture/PCR	RADS JPN	23-Mar-2023	0 / 1	0 / 87
H. bilis ade	PCR	RADS JPN	23-Mar-2023	0 / 1	0 / 87
H. hepaticus ade	PCR	RADS JPN	23-Mar-2023	0 / 1	0 / 87
Helicobacter sp. ade	PCR	RADS JPN	23-Mar-2023	0 / 1	0 / 87
M. pulmonis ac	MFIA/PCR	RADS JPN	05-Apr-2023	0 / 16	0 / 262
R. heylji (P.pneumotropica) ade	Culture/PCR	RADS JPN	23-Mar-2023	0 / 1	0 / 87
R. pneumotropicus (P.pneumotropica) ade	Culture/PCR	RADS JPN	23-Mar-2023	0 / 1	0 / 87
P. aeruginosa bd	Culture/PCR	RADS JPN	07-Feb-2023	0 / 10	0 / 70
Salmonella sp. ade	Culture/PCR	RADS JPN	23-Mar-2023	0 / 1	0 / 87
S. moniliformis ad	PCR	RADS JPN	07-Feb-2023	0 / 10	0 / 70
Strep. pneumoniae ade	Culture/PCR	RADS JPN	23-Mar-2023	0 / 1	0 / 87
CPIL (Tyzzer's Disease) ac	Exam/MFIA/PCR	RADS JPN	05-Apr-2023	0 / 16	0 / 282
C. bovis bde	PCR	RADS JPN	23-Mar-2023	0 / 1	0 / 87
Pathology					
Gross Exam df	Exam	RADS JPN	07-Feb-2023	0 / 15	0 / 90

Mouse SPF/VAF Report

Japan

The Jackson Laboratory Japan, Inc.

Location

Hino H12 Mice

Health Status

SPF / VAF

Summary Item	Method	Primary Lab	Most Recent		Past 18 Months
			Test Date	Positive / Tested	Positive / Tested
Parasitology					
Ectoparasites ade	Exam/PCR	RADS JPN	23-Mar-2023	0 / 1	0 / 87
Helminths ade	Exam/PCR	RADS JPN	23-Mar-2023	0 / 1	0 / 107
Enteric Protozoa ade	Exam/PCR	RADS JPN	23-Mar-2023	0 / 1	0 / 87
E. cuniculi ad	MFIA/PCR	RADS JPN	07-Feb-2023	0 / 10	0 / 70

* dashes indicate not tested during specified period.

HOUSED STRAINS

Inbred
B6 OB
BKS DB
C57BL/6J

COLONY POLICY FOR POSITIVE RESULT: a = immediate termination; b = no action

TESTING SCHEDULE: c = screened every month; d = screened quarterly; e = additional PCR is done every month by environmental swabs;

Other

f = results do not include incidental or strain related findings

Rat SPF/VAF Report

Japan

The Jackson Laboratory Japan, Inc.

Location

Hino H21 Rats

Health Status

SPF / VAF

Summary Item	Method	Primary Lab	Most Recent		Past 18 Months
			Test Date	Positive / Tested	Positive / Tested
Virology					
SEND ac	MFIA/PCR	RADS JPN	05-Apr-2023	0 / 16	0 / 262
PVM ac	MFIA/PCR	RADS JPN	05-Apr-2023	0 / 16	0 / 262
SDAV ace	MFIA/PCR	RADS JPN	05-Apr-2023	0 / 16	0 / 279
KRV ac	MFIA/PCR	RADS JPN	05-Apr-2023	0 / 16	0 / 262
H1 ac	MFIA/PCR	RADS JPN	05-Apr-2023	0 / 16	0 / 262
RPV ac	MFIA/PCR	RADS JPN	05-Apr-2023	0 / 16	0 / 262
RMV ac	MFIA/PCR	RADS JPN	05-Apr-2023	0 / 16	0 / 262
REO ac	MFIA/PCR	RADS JPN	05-Apr-2023	0 / 16	0 / 262
RTV ac	MFIA/PCR	RADS JPN	05-Apr-2023	0 / 16	0 / 262
LCMV ad	MFIA/PCR	RADS JPN	07-Feb-2023	0 / 10	0 / 70
HANT ad	MFIA/PCR	RADS JPN	07-Feb-2023	0 / 10	0 / 70
MAV ad	MFIA/PCR	RADS JPN	07-Feb-2023	0 / 10	0 / 70
Microbiology					
B. bronchiseptica ade	Culture/PCR	RADS JPN	23-Mar-2023	0 / 1	0 / 87
F. rodentium (CAR Bacillus) ad	MFIA/PCR	RADS JPN	07-Feb-2023	0 / 10	0 / 70
C. kutscheri ade	Culture/PCR	RADS JPN	23-Mar-2023	0 / 1	0 / 87
H. bilis ade	PCR	RADS JPN	23-Mar-2023	0 / 1	0 / 87
H. hepaticus ade	PCR	RADS JPN	23-Mar-2023	0 / 1	0 / 87
Helicobacter sp. ade	PCR	RADS JPN	23-Mar-2023	0 / 1	0 / 87
M. pulmonis ac	MFIA/PCR	RADS JPN	05-Apr-2023	0 / 16	0 / 262
R. heylII (P.pneumotropica) ade	Culture/PCR	RADS JPN	23-Mar-2023	0 / 1	0 / 87
R. pneumotropicus (P.pneumotropica) ade	Culture/PCR	RADS JPN	23-Mar-2023	0 / 1	0 / 87
P. aeruginosa bd	Culture/PCR	RADS JPN	07-Feb-2023	0 / 10	0 / 70
Salmonella sp. ade	Culture/PCR	RADS JPN	23-Mar-2023	0 / 1	0 / 87
S. moniliformis ad	PCR	RADS JPN	07-Feb-2023	0 / 10	0 / 70
Strep. pneumoniae ade	Culture/PCR	RADS JPN	23-Mar-2023	0 / 1	0 / 87
CPIL (Tyzzer's Disease) ac	Exam/MFIA/PCR	RADS JPN	05-Apr-2023	0 / 16	0 / 282
Pneumocystis sp. ac	MFIA/PCR	RADS JPN	05-Apr-2023	0 / 16	0 / 262
C. bovis bde	PCR	RADS JPN	23-Mar-2023	0 / 1	0 / 87
Pathology					
Gross Exam df	Exam	RADS JPN	07-Feb-2023	0 / 15	0 / 90
Parasitology					
Ectoparasites ade	Exam/PCR	RADS JPN	23-Mar-2023	0 / 1	0 / 87
Helminths ade	Exam/PCR	RADS JPN	23-Mar-2023	0 / 1	0 / 107
Enteric Protozoa ade	Exam/PCR	RADS JPN	23-Mar-2023	0 / 1	0 / 87
E. cuniculi ad	MFIA/PCR	RADS JPN	07-Feb-2023	0 / 10	0 / 70

* dashes indicate not tested during specified period.

Rat SPF/VAF Report

Japan

The Jackson Laboratory Japan, Inc.

Location

Hino H21 Rats

Health Status

SPF / VAF

Summary Item	Method	Primary Lab	Most Recent		Past 18 Months
			Test Date	Positive / Tested	Positive / Tested
HOUSED STRAINS					
	Outbred				
	CD				
	WISTAR				

COLONY POLICY FOR POSITIVE RESULT: a = immediate termination; b = no action

TESTING SCHEDULE: c = screened every month; d = screened quarterly; e = additional PCR is done every month by environmental swabs;

Other

f = results do not include incidental or strain related findings

Mouse SPF/VAF Report

Japan

The Jackson Laboratory Japan, Inc.

Location

Hino H22 Mice

Health Status

SPF / VAF

Summary Item	Method	Primary Lab	Most Recent		Past 18 Months
			Test Date	Positive / Tested	Positive / Tested
Virology					
SEND ac	MFIA/PCR	RADS JPN	05-Apr-2023	0 / 16	0 / 262
PVM ac	MFIA/PCR	RADS JPN	05-Apr-2023	0 / 16	0 / 262
MHV ace	MFIA/PCR	RADS JPN	05-Apr-2023	0 / 16	0 / 279
MVM ac	MFIA/PCR	RADS JPN	05-Apr-2023	0 / 16	0 / 262
MPV ac	MFIA/PCR	RADS JPN	05-Apr-2023	0 / 16	0 / 262
MNV ace	MFIA/PCR	RADS JPN	05-Apr-2023	0 / 16	0 / 279
TMEV (GDVII) ac	MFIA/PCR	RADS JPN	05-Apr-2023	0 / 16	0 / 262
REO ac	MFIA/PCR	RADS JPN	05-Apr-2023	0 / 16	0 / 262
EDIM ac	MFIA/PCR	RADS JPN	05-Apr-2023	0 / 16	0 / 262
LCMV ad	MFIA/PCR	RADS JPN	07-Feb-2023	0 / 10	0 / 70
ECTRO ad	MFIA/PCR	RADS JPN	07-Feb-2023	0 / 10	0 / 70
MAV ad	MFIA/PCR	RADS JPN	07-Feb-2023	0 / 10	0 / 70
MCMV ad	MFIA/PCR	RADS JPN	07-Feb-2023	0 / 10	0 / 70
K ad	MFIA/PCR	RADS JPN	07-Feb-2023	0 / 10	0 / 70
POLY ad	MFIA/PCR	RADS JPN	07-Feb-2023	0 / 10	0 / 70
HANT ad	MFIA/PCR	RADS JPN	07-Feb-2023	0 / 10	0 / 70
MTLV ad	MFIA/PCR	RADS JPN	07-Feb-2023	0 / 10	0 / 70
LDV ad	MFIA/PCR	RADS JPN	07-Feb-2023	0 / 10	0 / 70
MuCPV bd	PCR	RADS JPN	07-Feb-2023	0 / 5	0 / 30
Microbiology					
B. bronchiseptica ade	Culture/PCR	RADS JPN	23-Mar-2023	0 / 1	0 / 87
C. rodentium ade	Culture/PCR	RADS JPN	23-Mar-2023	0 / 1	0 / 107
F. rodentium (CAR Bacillus) ad	MFIA/PCR	RADS JPN	07-Feb-2023	0 / 10	0 / 70
C. kutscheri ade	Culture/PCR	RADS JPN	23-Mar-2023	0 / 1	0 / 87
H. bilis ade	PCR	RADS JPN	23-Mar-2023	0 / 1	0 / 87
H. hepaticus ade	PCR	RADS JPN	23-Mar-2023	0 / 1	0 / 87
Helicobacter sp. ade	PCR	RADS JPN	23-Mar-2023	0 / 1	0 / 87
M. pulmonis ac	MFIA/PCR	RADS JPN	05-Apr-2023	0 / 16	0 / 262
R. heylII (P.pneumotropica) ade	Culture/PCR	RADS JPN	23-Mar-2023	0 / 1	0 / 87
R. pneumotropicus (P.pneumotropica) ade	Culture/PCR	RADS JPN	23-Mar-2023	0 / 1	0 / 87
P. aeruginosa bd	Culture/PCR	RADS JPN	07-Feb-2023	0 / 10	0 / 70
Salmonella sp. ade	Culture/PCR	RADS JPN	23-Mar-2023	0 / 1	0 / 87
S. moniliformis ad	PCR	RADS JPN	07-Feb-2023	0 / 10	0 / 70
Strep. pneumoniae ade	Culture/PCR	RADS JPN	23-Mar-2023	0 / 1	0 / 87
CPIL (Tyzzer's Disease) ac	Exam/MFIA/PCR	RADS JPN	05-Apr-2023	0 / 16	0 / 282
C. bovis bde	PCR	RADS JPN	23-Mar-2023	0 / 1	0 / 87
Pathology					
Gross Exam df	Exam	RADS JPN	07-Feb-2023	0 / 15	0 / 90

Mouse SPF/VAF Report

Japan

The Jackson Laboratory Japan, Inc.

Location

Hino H22 Mice

Health Status

SPF / VAF

Summary Item	Method	Primary Lab	Most Recent		Past 18 Months
			Test Date	Positive / Tested	Positive / Tested
Parasitology					
Ectoparasites ade	Exam/PCR	RADS JPN	23-Mar-2023	0 / 1	0 / 87
Helminths ade	Exam/PCR	RADS JPN	23-Mar-2023	0 / 1	0 / 107
Enteric Protozoa ade	Exam/PCR	RADS JPN	23-Mar-2023	0 / 1	0 / 87
E. cuniculi ad	MFIA/PCR	RADS JPN	07-Feb-2023	0 / 10	0 / 70

* dashes indicate not tested during specified period.

HOUSED STRAINS

Outbred
CD-1

Inbred
C3H
C57BL/6N
DBA/2

Hybrid
B6C3F1
BDF-1

COLONY POLICY FOR POSITIVE RESULT: a = immediate termination; b = no action

TESTING SCHEDULE: c = screened every month; d = screened quarterly; e = additional PCR is done every month by environmental swabs;

Other

f = results do not include incidental or strain related findings

Immunodeficient Mouse SPF/VAF Report (Isolator)

Japan

The Jackson Laboratory Japan, Inc.

Location

Atsugi A15 Mice

Health Status

SPF Isolator

Summary Item	Method	Primary Lab	Most Recent		Past 18 Months
			Test Date	Positive / Tested	Positive / Tested
Virology					
SEND ac	PCR	RADS JPN	11-Apr-2023	0 / 9	0 / 349
PVM ac	PCR	RADS JPN	11-Apr-2023	0 / 9	0 / 349
MHV ac	PCR	RADS JPN	11-Apr-2023	0 / 9	0 / 349
MVM ac	PCR	RADS JPN	11-Apr-2023	0 / 9	0 / 349
MPV ac	PCR	RADS JPN	11-Apr-2023	0 / 9	0 / 349
MNV ac	PCR	RADS JPN	11-Apr-2023	0 / 9	0 / 349
TMEV (GDVII) ac	PCR	RADS JPN	11-Apr-2023	0 / 9	0 / 349
REO ac	PCR	RADS JPN	11-Apr-2023	0 / 9	0 / 349
EDIM ac	PCR	RADS JPN	11-Apr-2023	0 / 9	0 / 349
LCMV a	PCR	RADS JPN	03-Apr-2023	0 / 12	0 / 196
ECTRO a	PCR	RADS JPN	03-Apr-2023	0 / 12	0 / 196
MAV a	PCR	RADS JPN	03-Apr-2023	0 / 12	0 / 196
MCMV a	PCR	RADS JPN	03-Apr-2023	0 / 12	0 / 196
K a	PCR	RADS JPN	03-Apr-2023	0 / 12	0 / 196
POLY a	PCR	RADS JPN	03-Apr-2023	0 / 12	0 / 196
HANT a	PCR	RADS JPN	03-Apr-2023	0 / 12	0 / 196
MTLV a	PCR	RADS JPN	03-Apr-2023	0 / 12	0 / 196
LDV a	PCR	RADS JPN	03-Apr-2023	0 / 12	0 / 196
MuCPV a	PCR	RADS JPN	03-Apr-2023	0 / 12	0 / 196
Microbiology					
B. bronchiseptica abc	Culture/PCR	RADS JPN	11-Apr-2023	0 / 44	0 / 908
C. rodentium abc	Culture/PCR	RADS JPN	11-Apr-2023	0 / 44	0 / 908
F. rodentium (CAR Bacillus) a	PCR	RADS JPN	03-Apr-2023	0 / 12	0 / 196
C. kutscheri abc	Culture/PCR	RADS JPN	11-Apr-2023	0 / 44	0 / 908
H. bilis ac	PCR	RADS JPN	11-Apr-2023	0 / 9	0 / 349
H. hepaticus ac	PCR	RADS JPN	11-Apr-2023	0 / 9	0 / 349
Helicobacter sp. ac	PCR	RADS JPN	11-Apr-2023	0 / 9	0 / 349
M. pulmonis ac	PCR	RADS JPN	11-Apr-2023	0 / 9	0 / 349
R. heylii (P.pneumotropica) abc	Culture/PCR	RADS JPN	11-Apr-2023	0 / 44	0 / 908
R. pneumotropicus (P.pneumotropica) abc	Culture/PCR	RADS JPN	11-Apr-2023	0 / 44	0 / 908
P. aeruginosa abc	Culture/PCR	RADS JPN	11-Apr-2023	0 / 44	0 / 908
Salmonella sp. abc	Culture/PCR	RADS JPN	11-Apr-2023	0 / 44	0 / 908
Staph. aureus abc	Culture/PCR	RADS JPN	11-Apr-2023	0 / 44	0 / 908
S. moniliformis a	PCR	RADS JPN	03-Apr-2023	0 / 12	0 / 196
Strep. pneumoniae abc	Culture/PCR	RADS JPN	11-Apr-2023	0 / 44	0 / 908
Beta Strep. sp. a	Culture/PCR	RADS JPN	03-Apr-2023	0 / 12	0 / 196
CPIL (Tyzzer's Disease) ac	Exam/PCR	RADS JPN	11-Apr-2023	0 / 9	0 / 349
Pneumocystis sp. ac	PCR	RADS JPN	11-Apr-2023	0 / 9	0 / 349

Immunodeficient Mouse SPF/VAF Report (Isolator)

Japan

The Jackson Laboratory Japan, Inc.

Location

Atsugi A15 Mice

Health Status

SPF Isolator

Summary Item	Method	Primary Lab	Most Recent		Past 18 Months
			Test Date	Positive / Tested	Positive / Tested
Microbiology					
C. bovis ac	PCR	RADS JPN	11-Apr-2023	0 / 9	0 / 349
Pathology					
Gross Exam ad	Exam	RADS JPN	03-Apr-2023	0 / 12	0 / 196
Parasitology					
Ectoparasites a	Exam/PCR	RADS JPN	03-Apr-2023	0 / 12	0 / 196
Helminths a	Exam/PCR	RADS JPN	03-Apr-2023	0 / 12	0 / 196
Enteric Protozoa a	Exam/PCR	RADS JPN	03-Apr-2023	0 / 12	0 / 196
E. cuniculi a	PCR	RADS JPN	03-Apr-2023	0 / 12	0 / 196

* dashes indicate not tested during specified period.

HOUSED STRAINS

Other Strains

Congenetic

CB17SCID

COLONY POLICY FOR POSITIVE RESULT: immediate termination

TESTING SCHEDULE: a = screened annually; b = environmental bacteriology is done 11 times a year; c = environmental PCR is done triannually

Other

d = results do not include incidental or strain related findings

Immunodeficient Mouse SPF/VAF Report (Isolator)

Japan

The Jackson Laboratory Japan, Inc.

Location

Tsukuba T21 Mice

Health Status

SPF Isolator

Summary Item	Method	Primary Lab	Most Recent		Past 18 Months
			Test Date	Positive / Tested	Positive / Tested
Virology					
SEND ac	PCR	RADS JPN	04-Apr-2023	0 / 13	0 / 544
PVM ac	PCR	RADS JPN	04-Apr-2023	0 / 13	0 / 544
MHV ac	PCR	RADS JPN	04-Apr-2023	0 / 13	0 / 544
MVM ac	PCR	RADS JPN	04-Apr-2023	0 / 13	0 / 544
MPV ac	PCR	RADS JPN	04-Apr-2023	0 / 13	0 / 544
MNV ac	PCR	RADS JPN	04-Apr-2023	0 / 13	0 / 544
TMEV (GDVII) ac	PCR	RADS JPN	04-Apr-2023	0 / 13	0 / 544
REO ac	PCR	RADS JPN	04-Apr-2023	0 / 13	0 / 544
EDIM ac	PCR	RADS JPN	04-Apr-2023	0 / 13	0 / 544
LCMV a	PCR	RADS JPN	03-Apr-2023	0 / 20	0 / 316
ECTRO a	PCR	RADS JPN	03-Apr-2023	0 / 20	0 / 316
MAV a	PCR	RADS JPN	03-Apr-2023	0 / 20	0 / 316
MCMV a	PCR	RADS JPN	03-Apr-2023	0 / 20	0 / 316
K a	PCR	RADS JPN	03-Apr-2023	0 / 20	0 / 316
POLY a	PCR	RADS JPN	03-Apr-2023	0 / 20	0 / 316
HANT a	PCR	RADS JPN	03-Apr-2023	0 / 20	0 / 316
MTLV a	PCR	RADS JPN	03-Apr-2023	0 / 20	0 / 316
LDV a	PCR	RADS JPN	03-Apr-2023	0 / 20	0 / 316
MuCPV a	PCR	RADS JPN	03-Apr-2023	0 / 20	0 / 316
Microbiology					
B. bronchiseptica abc	Culture/PCR	RADS JPN	04-Apr-2023	0 / 60	0 / 1,385
C. rodentium abc	Culture/PCR	RADS JPN	04-Apr-2023	0 / 60	0 / 1,385
F. rodentium (CAR Bacillus) a	PCR	RADS JPN	03-Apr-2023	0 / 20	0 / 316
C. kutscheri abc	Culture/PCR	RADS JPN	04-Apr-2023	0 / 60	0 / 1,385
H. bilis ac	PCR	RADS JPN	04-Apr-2023	0 / 13	0 / 544
H. hepaticus ac	PCR	RADS JPN	04-Apr-2023	0 / 13	0 / 544
Helicobacter sp. ac	PCR	RADS JPN	04-Apr-2023	0 / 13	0 / 544
M. pulmonis ac	PCR	RADS JPN	04-Apr-2023	0 / 13	0 / 544
R. heylII (P.pneumotropica) abc	Culture/PCR	RADS JPN	04-Apr-2023	0 / 60	0 / 1,385
R. pneumotropicus (P.pneumotropica) abc	Culture/PCR	RADS JPN	04-Apr-2023	0 / 60	0 / 1,385
P. aeruginosa abc	Culture/PCR	RADS JPN	04-Apr-2023	0 / 60	0 / 1,385
Salmonella sp. abc	Culture/PCR	RADS JPN	04-Apr-2023	0 / 60	0 / 1,385
Staph. aureus abc	Culture/PCR	RADS JPN	04-Apr-2023	0 / 60	0 / 1,385
S. moniliformis a	PCR	RADS JPN	03-Apr-2023	0 / 20	0 / 316
Strep. pneumoniae abc	Culture/PCR	RADS JPN	04-Apr-2023	0 / 60	0 / 1,385
Beta Strep. sp. a	Culture/PCR	RADS JPN	03-Apr-2023	0 / 20	0 / 316
CPIL (Tyzzler's Disease) ac	Exam/PCR	RADS JPN	04-Apr-2023	0 / 13	0 / 544
Pneumocystis sp. ac	PCR	RADS JPN	04-Apr-2023	0 / 13	0 / 544

Immunodeficient Mouse SPF/VAF Report (Isolator)

Japan

The Jackson Laboratory Japan, Inc.

Location

Tsukuba T21 Mice

Health Status

SPF Isolator

Summary Item	Method	Primary Lab	Most Recent		Past 18 Months
			Test Date	Positive / Tested	Positive / Tested
Microbiology					
C. bovis ac	PCR	RADS JPN	04-Apr-2023	0 / 13	0 / 544
Pathology					
Gross Exam ad	Exam	RADS JPN	03-Apr-2023	0 / 20	0 / 316
Parasitology					
Ectoparasites a	Exam/PCR	RADS JPN	03-Apr-2023	0 / 20	0 / 316
Helminths a	Exam/PCR	RADS JPN	03-Apr-2023	0 / 20	0 / 316
Enteric Protozoa a	Exam/PCR	RADS JPN	03-Apr-2023	0 / 20	0 / 316
E. cuniculi a	PCR	RADS JPN	03-Apr-2023	0 / 20	0 / 316

* dashes indicate not tested during specified period.

HOUSED STRAINS

Outbred
SHO

Other Strains
Congenetic
NSG

COLONY POLICY FOR POSITIVE RESULT: immediate termination

TESTING SCHEDULE: a = screened annually; b = environmental bacteriology is done 11 times a year; c = environmental PCR is done triannually

Other

d = results do not include incidental or strain related findings

Immunodeficient Mouse SPF/VAF Report (Isolator)

Japan

The Jackson Laboratory Japan, Inc.

Location

Tsukuba T22 Mice

Health Status

SPF Isolator

Summary Item	Method	Primary Lab	Most Recent		Past 18 Months
			Test Date	Positive / Tested	Positive / Tested
Virology					
SEND ac	PCR	RADS JPN	18-Apr-2023	0 / 11	0 / 420
PVM ac	PCR	RADS JPN	18-Apr-2023	0 / 11	0 / 420
MHV ac	PCR	RADS JPN	18-Apr-2023	0 / 11	0 / 420
MVM ac	PCR	RADS JPN	18-Apr-2023	0 / 11	0 / 420
MPV ac	PCR	RADS JPN	18-Apr-2023	0 / 11	0 / 420
MNV ac	PCR	RADS JPN	18-Apr-2023	0 / 11	0 / 420
TMEV (GDVII) ac	PCR	RADS JPN	18-Apr-2023	0 / 11	0 / 420
REO ac	PCR	RADS JPN	18-Apr-2023	0 / 11	0 / 420
EDIM ac	PCR	RADS JPN	18-Apr-2023	0 / 11	0 / 420
LCMV a	PCR	RADS JPN	04-Apr-2023	0 / 12	0 / 240
ECTRO a	PCR	RADS JPN	04-Apr-2023	0 / 12	0 / 240
MAV a	PCR	RADS JPN	04-Apr-2023	0 / 12	0 / 240
MCMV a	PCR	RADS JPN	04-Apr-2023	0 / 12	0 / 240
K a	PCR	RADS JPN	04-Apr-2023	0 / 12	0 / 240
POLY a	PCR	RADS JPN	04-Apr-2023	0 / 12	0 / 240
HANT a	PCR	RADS JPN	04-Apr-2023	0 / 12	0 / 240
MTLV a	PCR	RADS JPN	04-Apr-2023	0 / 12	0 / 240
LDV a	PCR	RADS JPN	04-Apr-2023	0 / 12	0 / 240
MuCPV a	PCR	RADS JPN	04-Apr-2023	0 / 12	0 / 240
Microbiology					
B. bronchiseptica abc	Culture/PCR	RADS JPN	18-Apr-2023	0 / 53	0 / 1,081
C. rodentium abc	Culture/PCR	RADS JPN	18-Apr-2023	0 / 53	0 / 1,081
F. rodentium (CAR Bacillus) a	PCR	RADS JPN	04-Apr-2023	0 / 12	0 / 240
C. kutscheri abc	Culture/PCR	RADS JPN	18-Apr-2023	0 / 53	0 / 1,081
H. bilis ac	PCR	RADS JPN	18-Apr-2023	0 / 11	0 / 420
H. hepaticus ac	PCR	RADS JPN	18-Apr-2023	0 / 11	0 / 420
Helicobacter sp. ac	PCR	RADS JPN	18-Apr-2023	0 / 11	0 / 420
M. pulmonis ac	PCR	RADS JPN	18-Apr-2023	0 / 11	0 / 420
R. heylII (P.pneumotropica) abc	Culture/PCR	RADS JPN	18-Apr-2023	0 / 53	0 / 1,081
R. pneumotropicus (P.pneumotropica) abc	Culture/PCR	RADS JPN	18-Apr-2023	0 / 53	0 / 1,081
P. aeruginosa abc	Culture/PCR	RADS JPN	18-Apr-2023	0 / 53	0 / 1,081
Salmonella sp. abc	Culture/PCR	RADS JPN	18-Apr-2023	0 / 53	0 / 1,081
Staph. aureus abc	Culture/PCR	RADS JPN	18-Apr-2023	0 / 53	0 / 1,081
S. moniliformis a	PCR	RADS JPN	04-Apr-2023	0 / 12	0 / 240
Strep. pneumoniae abc	Culture/PCR	RADS JPN	18-Apr-2023	0 / 53	0 / 1,081
Beta Strep. sp. a	Culture/PCR	RADS JPN	04-Apr-2023	0 / 12	0 / 240
CPIL (Tyzzler's Disease) ac	Exam/PCR	RADS JPN	18-Apr-2023	0 / 11	0 / 420
Pneumocystis sp. ac	PCR	RADS JPN	18-Apr-2023	0 / 11	0 / 420

Immunodeficient Mouse SPF/VAF Report (Isolator)

Japan

The Jackson Laboratory Japan, Inc.

Location

Tsukuba T22 Mice

Health Status

SPF Isolator

Summary Item	Method	Primary Lab	Most Recent		Past 18 Months
			Test Date	Positive / Tested	Positive / Tested
Microbiology					
C. bovis ac	PCR	RADS JPN	18-Apr-2023	0 / 11	0 / 420
Pathology					
Gross Exam ad	Exam	RADS JPN	04-Apr-2023	0 / 12	0 / 240
Parasitology					
Ectoparasites a	Exam/PCR	RADS JPN	04-Apr-2023	0 / 12	0 / 240
Helminths a	Exam/PCR	RADS JPN	04-Apr-2023	0 / 12	0 / 240
Enteric Protozoa a	Exam/PCR	RADS JPN	04-Apr-2023	0 / 12	0 / 240
E. cuniculi a	PCR	RADS JPN	04-Apr-2023	0 / 12	0 / 240

* dashes indicate not tested during specified period.

HOUSED STRAINS

Other Strains

Congenetic

NOD SCID J

SCIDBEIGE

COLONY POLICY FOR POSITIVE RESULT: immediate termination

TESTING SCHEDULE: a = screened annually; b = environmental bacteriology is done 11 times a year; c = environmental PCR is done triannually

Other

d = results do not include incidental or strain related findings