

2023 年 3 月 28 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 3 月度)

試験責任者：品質保証部
マネジャー 佐藤征直



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	06-Mar-2023	0 / 16	0 / 262
PVM ac	MFIA/PCR	RADS JPN	06-Mar-2023	0 / 16	0 / 262
MHV ace	MFIA/PCR	RADS JPN	06-Mar-2023	0 / 16	0 / 280
MVM ac	MFIA/PCR	RADS JPN	06-Mar-2023	0 / 16	0 / 262
MPV ac	MFIA/PCR	RADS JPN	06-Mar-2023	0 / 16	0 / 262
MNV ace	MFIA/PCR	RADS JPN	06-Mar-2023	0 / 16	0 / 280
TMEV (GDVII) ac	MFIA/PCR	RADS JPN	06-Mar-2023	0 / 16	0 / 262
REO ac	MFIA/PCR	RADS JPN	06-Mar-2023	0 / 16	0 / 262
EDIM ac	MFIA/PCR	RADS JPN	06-Mar-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	28-Feb-2023	0 / 1	0 / 108
C. rodentium ade	Culture/PCR	RADS JPN	28-Feb-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	28-Feb-2023	0 / 1	0 / 108
H. bilis ade	PCR	RADS JPN	28-Feb-2023	0 / 1	0 / 108
H. hepaticus ade	PCR	RADS JPN	28-Feb-2023	0 / 1	0 / 108
Helicobacter sp. ade	PCR	RADS JPN	28-Feb-2023	0 / 1	0 / 108
M. pulmonis ac	MFIA/PCR	RADS JPN	06-Mar-2023	0 / 16	0 / 282
R. heylII (P.pneumotropica) ade	Culture/PCR	RADS JPN	28-Feb-2023	0 / 1	0 / 108
R. pneumotropicus (P.pneumotropica) ade	Culture/PCR	RADS JPN	28-Feb-2023	0 / 1	0 / 108
P. aeruginosa ade	Culture/PCR	RADS JPN	28-Feb-2023	0 / 1	0 / 108
Salmonella sp. ade	Culture/PCR	RADS JPN	28-Feb-2023	0 / 1	0 / 108
Staph. aureus ade	Culture/PCR	RADS JPN	28-Feb-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	28-Feb-2023	0 / 1	0 / 108
CPIL (Tyzzzer's Disease) ac	Exam/MFIA/PCR	RADS JPN	06-Mar-2023	0 / 16	0 / 282
Pneumocystis sp. ad	PCR	RADS JPN	06-Feb-2023	0 / 5	0 / 30
C. bovis ade	PCR	RADS JPN	28-Feb-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	28-Feb-2023	0 / 1	0 / 108
Helminths ade	Exam/PCR	RADS JPN	28-Feb-2023	0 / 1	0 / 108
Enteric Protozoa ade	Exam/PCR	RADS JPN	28-Feb-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	06-Mar-2023	0 / 16	0 / 262
PVM ac	MFIA/PCR	RADS JPN	06-Mar-2023	0 / 16	0 / 262
MHV ace	MFIA/PCR	RADS JPN	06-Mar-2023	0 / 16	0 / 280
MVM ac	MFIA/PCR	RADS JPN	06-Mar-2023	0 / 16	0 / 262
MPV ac	MFIA/PCR	RADS JPN	06-Mar-2023	0 / 16	0 / 262
MNV ace	MFIA/PCR	RADS JPN	06-Mar-2023	0 / 16	0 / 280
TMEV (GDVII) ac	MFIA/PCR	RADS JPN	06-Mar-2023	0 / 16	0 / 262
REO ac	MFIA/PCR	RADS JPN	06-Mar-2023	0 / 16	0 / 262
EDIM ac	MFIA/PCR	RADS JPN	06-Mar-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	28-Feb-2023	0 / 1	0 / 108
C. rodentium ade	Culture/PCR	RADS JPN	28-Feb-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	28-Feb-2023	0 / 1	0 / 108
H. bilis ade	PCR	RADS JPN	28-Feb-2023	0 / 1	0 / 108
H. hepaticus ade	PCR	RADS JPN	28-Feb-2023	0 / 1	0 / 108
Helicobacter sp. ade	PCR	RADS JPN	28-Feb-2023	0 / 1	0 / 108
M. pulmonis ac	MFIA/PCR	RADS JPN	06-Mar-2023	0 / 16	0 / 282
R. heylII (P.pneumotropica) ade	Culture/PCR	RADS JPN	28-Feb-2023	0 / 1	0 / 108
R. pneumotropicus (P.pneumotropica) ade	Culture/PCR	RADS JPN	28-Feb-2023	0 / 1	0 / 108
P. aeruginosa ade	Culture/PCR	RADS JPN	28-Feb-2023	0 / 1	0 / 108
Salmonella sp. ade	Culture/PCR	RADS JPN	28-Feb-2023	0 / 1	0 / 108
Staph. aureus ade	Culture/PCR	RADS JPN	28-Feb-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	28-Feb-2023	0 / 1	0 / 108
CPIL (Tyzzzer's Disease) ac	Exam/MFIA/PCR	RADS JPN	06-Mar-2023	0 / 16	0 / 282
Pneumocystis sp. ad	PCR	RADS JPN	06-Feb-2023	0 / 5	0 / 30
C. bovis ade	PCR	RADS JPN	28-Feb-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	28-Feb-2023	0 / 1	0 / 108
Helminths ade	Exam/PCR	RADS JPN	28-Feb-2023	0 / 1	0 / 108
Enteric Protozoa ade	Exam/PCR	RADS JPN	28-Feb-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	06-Mar-2023	0 / 16	0 / 262
PVM ac	MFIA/PCR	RADS JPN	06-Mar-2023	0 / 16	0 / 262
MHV ace	MFIA/PCR	RADS JPN	06-Mar-2023	0 / 16	0 / 280
MVM ac	MFIA/PCR	RADS JPN	06-Mar-2023	0 / 16	0 / 262
MPV ac	MFIA/PCR	RADS JPN	06-Mar-2023	0 / 16	0 / 262
MNV ace	MFIA/PCR	RADS JPN	06-Mar-2023	0 / 16	0 / 280
TMEV (GDVII) ac	MFIA/PCR	RADS JPN	06-Mar-2023	0 / 16	0 / 262
REO ac	MFIA/PCR	RADS JPN	06-Mar-2023	0 / 16	0 / 262
EDIM ac	MFIA/PCR	RADS JPN	06-Mar-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	28-Feb-2023	0 / 1	0 / 88
C. rodentium ade	Culture/PCR	RADS JPN	28-Feb-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	28-Feb-2023	0 / 1	0 / 88
H. bilis ade	PCR	RADS JPN	28-Feb-2023	0 / 1	0 / 88
H. hepaticus ade	PCR	RADS JPN	28-Feb-2023	0 / 1	0 / 88
Helicobacter sp. ade	PCR	RADS JPN	28-Feb-2023	0 / 1	0 / 88
M. pulmonis ac	MFIA/PCR	RADS JPN	06-Mar-2023	0 / 16	0 / 262
R. heylII (P.pneumotropica) ade	Culture/PCR	RADS JPN	28-Feb-2023	0 / 1	0 / 88
R. pneumotropicus (P.pneumotropica) ade	Culture/PCR	RADS JPN	28-Feb-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	28-Feb-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	28-Feb-2023	0 / 1	0 / 88
CPIL (Tyzzer's Disease) ac	Exam/MFIA/PCR	RADS JPN	06-Mar-2023	0 / 16	0 / 282
C. bovis bde	PCR	RADS JPN	28-Feb-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	28-Feb-2023	0 / 1	0 / 88
Helminths ade	Exam/PCR	RADS JPN	28-Feb-2023	0 / 1	0 / 108
Enteric Protozoa ade	Exam/PCR	RADS JPN	28-Feb-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	13-Mar-2023	0 / 16	0 / 262
PVM ac	MFIA/PCR	RADS JPN	13-Mar-2023	0 / 16	0 / 262
SDAV ace	MFIA/PCR	RADS JPN	13-Mar-2023	0 / 16	0 / 280
KRV ac	MFIA/PCR	RADS JPN	13-Mar-2023	0 / 16	0 / 262
H1 ac	MFIA/PCR	RADS JPN	13-Mar-2023	0 / 16	0 / 262
RPV ac	MFIA/PCR	RADS JPN	13-Mar-2023	0 / 16	0 / 262
RMV ac	MFIA/PCR	RADS JPN	13-Mar-2023	0 / 16	0 / 262
REO ac	MFIA/PCR	RADS JPN	13-Mar-2023	0 / 16	0 / 262
RTV ac	MFIA/PCR	RADS JPN	13-Mar-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	28-Feb-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	28-Feb-2023	0 / 1	0 / 88
H. bilis ade	PCR	RADS JPN	28-Feb-2023	0 / 1	0 / 88
H. hepaticus ade	PCR	RADS JPN	28-Feb-2023	0 / 1	0 / 88
Helicobacter sp. ade	PCR	RADS JPN	28-Feb-2023	0 / 1	0 / 88
M. pulmonis ac	MFIA/PCR	RADS JPN	13-Mar-2023	0 / 16	0 / 262
R. heylII (P.pneumotropica) ade	Culture/PCR	RADS JPN	28-Feb-2023	0 / 1	0 / 88
R. pneumotropicus (P.pneumotropica) ade	Culture/PCR	RADS JPN	28-Feb-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	28-Feb-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	28-Feb-2023	0 / 1	0 / 88
CPIL (Tyzzer's Disease) ac	Exam/MFIA/PCR	RADS JPN	13-Mar-2023	0 / 16	0 / 282
Pneumocystis sp. ac	MFIA/PCR	RADS JPN	13-Mar-2023	0 / 16	0 / 262
C. bovis bde	PCR	RADS JPN	28-Feb-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	28-Feb-2023	0 / 1	0 / 88
Helminths ade	Exam/PCR	RADS JPN	28-Feb-2023	0 / 1	0 / 108
Enteric Protozoa ade	Exam/PCR	RADS JPN	28-Feb-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	13-Mar-2023	0 / 16	0 / 262
PVM ac	MFIA/PCR	RADS JPN	13-Mar-2023	0 / 16	0 / 262
MHV ace	MFIA/PCR	RADS JPN	13-Mar-2023	0 / 16	0 / 280
MVM ac	MFIA/PCR	RADS JPN	13-Mar-2023	0 / 16	0 / 262
MPV ac	MFIA/PCR	RADS JPN	13-Mar-2023	0 / 16	0 / 262
MNV ace	MFIA/PCR	RADS JPN	13-Mar-2023	0 / 16	0 / 280
TMEV (GDVII) ac	MFIA/PCR	RADS JPN	13-Mar-2023	0 / 16	0 / 262
REO ac	MFIA/PCR	RADS JPN	13-Mar-2023	0 / 16	0 / 262
EDIM ac	MFIA/PCR	RADS JPN	13-Mar-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	28-Feb-2023	0 / 1	0 / 88
C. rodentium ade	Culture/PCR	RADS JPN	28-Feb-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	28-Feb-2023	0 / 1	0 / 88
H. bilis ade	PCR	RADS JPN	28-Feb-2023	0 / 1	0 / 88
H. hepaticus ade	PCR	RADS JPN	28-Feb-2023	0 / 1	0 / 88
Helicobacter sp. ade	PCR	RADS JPN	28-Feb-2023	0 / 1	0 / 88
M. pulmonis ac	MFIA/PCR	RADS JPN	13-Mar-2023	0 / 16	0 / 262
R. heylII (P.pneumotropica) ade	Culture/PCR	RADS JPN	28-Feb-2023	0 / 1	0 / 88
R. pneumotropicus (P.pneumotropica) ade	Culture/PCR	RADS JPN	28-Feb-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	28-Feb-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	28-Feb-2023	0 / 1	0 / 88
CPIL (Tyzzer's Disease) ac	Exam/MFIA/PCR	RADS JPN	13-Mar-2023	0 / 16	0 / 282
C. bovis bde	PCR	RADS JPN	28-Feb-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	28-Feb-2023	0 / 1	0 / 88
Helminths ade	Exam/PCR	RADS JPN	28-Feb-2023	0 / 1	0 / 108
Enteric Protozoa ade	Exam/PCR	RADS JPN	28-Feb-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	06-Mar-2023	0 / 16	0 / 262
PVM ac	MFIA/PCR	RADS JPN	06-Mar-2023	0 / 16	0 / 262
MHV ace	MFIA/PCR	RADS JPN	06-Mar-2023	0 / 16	0 / 280
MVM ac	MFIA/PCR	RADS JPN	06-Mar-2023	0 / 16	0 / 262
MPV ac	MFIA/PCR	RADS JPN	06-Mar-2023	0 / 16	0 / 262
MNV ace	MFIA/PCR	RADS JPN	06-Mar-2023	0 / 16	0 / 280
TMEV (GDVII) ac	MFIA/PCR	RADS JPN	06-Mar-2023	0 / 16	0 / 262
REO ac	MFIA/PCR	RADS JPN	06-Mar-2023	0 / 16	0 / 262
EDIM ac	MFIA/PCR	RADS JPN	06-Mar-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	28-Feb-2023	0 / 1	0 / 88
C. rodentium ade	Culture/PCR	RADS JPN	28-Feb-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	28-Feb-2023	0 / 1	0 / 88
H. bilis ade	PCR	RADS JPN	28-Feb-2023	0 / 1	0 / 88
H. hepaticus ade	PCR	RADS JPN	28-Feb-2023	0 / 1	0 / 88
Helicobacter sp. ade	PCR	RADS JPN	28-Feb-2023	0 / 1	0 / 88
M. pulmonis ac	MFIA/PCR	RADS JPN	06-Mar-2023	0 / 16	0 / 262
R. heylji (P.pneumotropica) ade	Culture/PCR	RADS JPN	28-Feb-2023	0 / 1	0 / 88
R. pneumotropicus (P.pneumotropica) ade	Culture/PCR	RADS JPN	28-Feb-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	28-Feb-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	28-Feb-2023	0 / 1	0 / 88
CPIL (Tyzzer's Disease) ac	Exam/MFIA/PCR	RADS JPN	06-Mar-2023	0 / 16	0 / 282
C. bovis bde	PCR	RADS JPN	28-Feb-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	28-Feb-2023	0 / 1	0 / 88
Helminths ade	Exam/PCR	RADS JPN	28-Feb-2023	0 / 1	0 / 108
Enteric Protozoa ade	Exam/PCR	RADS JPN	28-Feb-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	06-Mar-2023	0 / 16	0 / 230
PVM ac	MFIA/PCR	RADS JPN	06-Mar-2023	0 / 16	0 / 230
MHV ace	MFIA/PCR	RADS JPN	06-Mar-2023	0 / 16	0 / 246
MVM ac	MFIA/PCR	RADS JPN	06-Mar-2023	0 / 16	0 / 230
MPV ac	MFIA/PCR	RADS JPN	06-Mar-2023	0 / 16	0 / 230
MNV ace	MFIA/PCR	RADS JPN	06-Mar-2023	0 / 16	0 / 246
TMEV (GDVII) ac	MFIA/PCR	RADS JPN	06-Mar-2023	0 / 16	0 / 230
REO ac	MFIA/PCR	RADS JPN	06-Mar-2023	0 / 16	0 / 230
EDIM ac	MFIA/PCR	RADS JPN	06-Mar-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	28-Feb-2023	0 / 1	0 / 86
C. rodentium ade	Culture/PCR	RADS JPN	28-Feb-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	28-Feb-2023	0 / 1	0 / 86
H. bilis ade	PCR	RADS JPN	28-Feb-2023	0 / 1	0 / 86
H. hepaticus ade	PCR	RADS JPN	28-Feb-2023	0 / 1	0 / 86
Helicobacter sp. ade	PCR	RADS JPN	28-Feb-2023	0 / 1	0 / 86
M. pulmonis ac	MFIA/PCR	RADS JPN	06-Mar-2023	0 / 16	0 / 230
R. heylII (P.pneumotropica) ade	Culture/PCR	RADS JPN	28-Feb-2023	0 / 1	0 / 86
R. pneumotropicus (P.pneumotropica) ade	Culture/PCR	RADS JPN	28-Feb-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	28-Feb-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	28-Feb-2023	0 / 1	0 / 86
CPIL (Tyzzer's Disease) ac	Exam/MFIA/PCR	RADS JPN	06-Mar-2023	0 / 16	0 / 250
C. bovis bde	PCR	RADS JPN	28-Feb-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	28-Feb-2023	0 / 1	0 / 86
Helminths ade	Exam/PCR	RADS JPN	28-Feb-2023	0 / 1	0 / 106
Enteric Protozoa ade	Exam/PCR	RADS JPN	28-Feb-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	08-Mar-2023	0 / 16	0 / 262
PVM ac	MFIA/PCR	RADS JPN	08-Mar-2023	0 / 16	0 / 262
SDAV ace	MFIA/PCR	RADS JPN	08-Mar-2023	0 / 16	0 / 279
KRV ac	MFIA/PCR	RADS JPN	08-Mar-2023	0 / 16	0 / 262
H1 ac	MFIA/PCR	RADS JPN	08-Mar-2023	0 / 16	0 / 262
RPV ac	MFIA/PCR	RADS JPN	08-Mar-2023	0 / 16	0 / 262
RMV ac	MFIA/PCR	RADS JPN	08-Mar-2023	0 / 16	0 / 262
REO ac	MFIA/PCR	RADS JPN	08-Mar-2023	0 / 16	0 / 262
RTV ac	MFIA/PCR	RADS JPN	08-Mar-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	24-Feb-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	24-Feb-2023	0 / 1	0 / 87
H. bilis ade	PCR	RADS JPN	24-Feb-2023	0 / 1	0 / 87
H. hepaticus ade	PCR	RADS JPN	24-Feb-2023	0 / 1	0 / 87
Helicobacter sp. ade	PCR	RADS JPN	24-Feb-2023	0 / 1	0 / 87
M. pulmonis ac	MFIA/PCR	RADS JPN	08-Mar-2023	0 / 16	0 / 262
R. heylII (P.pneumotropica) ade	Culture/PCR	RADS JPN	24-Feb-2023	0 / 1	0 / 87
R. pneumotropicus (P.pneumotropica) ade	Culture/PCR	RADS JPN	24-Feb-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	24-Feb-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	24-Feb-2023	0 / 1	0 / 87
CPIL (Tyzzer's Disease) ac	Exam/MFIA/PCR	RADS JPN	08-Mar-2023	0 / 16	0 / 282
Pneumocystis sp. ac	MFIA/PCR	RADS JPN	08-Mar-2023	0 / 16	0 / 262
C. bovis bde	PCR	RADS JPN	24-Feb-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	24-Feb-2023	0 / 1	0 / 87
Helminths ade	Exam/PCR	RADS JPN	24-Feb-2023	0 / 1	0 / 107
Enteric Protozoa ade	Exam/PCR	RADS JPN	24-Feb-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	08-Mar-2023	0 / 16	0 / 262
PVM ac	MFIA/PCR	RADS JPN	08-Mar-2023	0 / 16	0 / 262
MHV ace	MFIA/PCR	RADS JPN	08-Mar-2023	0 / 16	0 / 279
MVM ac	MFIA/PCR	RADS JPN	08-Mar-2023	0 / 16	0 / 262
MPV ac	MFIA/PCR	RADS JPN	08-Mar-2023	0 / 16	0 / 262
MNV ace	MFIA/PCR	RADS JPN	08-Mar-2023	0 / 16	0 / 279
TMEV (GDVII) ac	MFIA/PCR	RADS JPN	08-Mar-2023	0 / 16	0 / 262
REO ac	MFIA/PCR	RADS JPN	08-Mar-2023	0 / 16	0 / 262
EDIM ac	MFIA/PCR	RADS JPN	08-Mar-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	24-Feb-2023	0 / 1	0 / 87
C. rodentium ade	Culture/PCR	RADS JPN	24-Feb-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	24-Feb-2023	0 / 1	0 / 87
H. bilis ade	PCR	RADS JPN	24-Feb-2023	0 / 1	0 / 87
H. hepaticus ade	PCR	RADS JPN	24-Feb-2023	0 / 1	0 / 87
Helicobacter sp. ade	PCR	RADS JPN	24-Feb-2023	0 / 1	0 / 87
M. pulmonis ac	MFIA/PCR	RADS JPN	08-Mar-2023	0 / 16	0 / 262
R. heylii (P.pneumotropica) ade	Culture/PCR	RADS JPN	24-Feb-2023	0 / 1	0 / 87
R. pneumotropicus (P.pneumotropica) ade	Culture/PCR	RADS JPN	24-Feb-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	24-Feb-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	24-Feb-2023	0 / 1	0 / 87
CPIL (Tyzzer's Disease) ac	Exam/MFIA/PCR	RADS JPN	08-Mar-2023	0 / 16	0 / 282
C. bovis bde	PCR	RADS JPN	24-Feb-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	24-Feb-2023	0 / 1	0 / 87
Helminths ade	Exam/PCR	RADS JPN	24-Feb-2023	0 / 1	0 / 107
Enteric Protozoa ade	Exam/PCR	RADS JPN	24-Feb-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	08-Mar-2023	0 / 16	0 / 262
PVM ac	MFIA/PCR	RADS JPN	08-Mar-2023	0 / 16	0 / 262
SDAV ace	MFIA/PCR	RADS JPN	08-Mar-2023	0 / 16	0 / 279
KRV ac	MFIA/PCR	RADS JPN	08-Mar-2023	0 / 16	0 / 262
H1 ac	MFIA/PCR	RADS JPN	08-Mar-2023	0 / 16	0 / 262
RPV ac	MFIA/PCR	RADS JPN	08-Mar-2023	0 / 16	0 / 262
RMV ac	MFIA/PCR	RADS JPN	08-Mar-2023	0 / 16	0 / 262
REO ac	MFIA/PCR	RADS JPN	08-Mar-2023	0 / 16	0 / 262
RTV ac	MFIA/PCR	RADS JPN	08-Mar-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	24-Feb-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	24-Feb-2023	0 / 1	0 / 87
H. bilis ade	PCR	RADS JPN	24-Feb-2023	0 / 1	0 / 87
H. hepaticus ade	PCR	RADS JPN	24-Feb-2023	0 / 1	0 / 87
Helicobacter sp. ade	PCR	RADS JPN	24-Feb-2023	0 / 1	0 / 87
M. pulmonis ac	MFIA/PCR	RADS JPN	08-Mar-2023	0 / 16	0 / 262
R. heylII (P.pneumotropica) ade	Culture/PCR	RADS JPN	24-Feb-2023	0 / 1	0 / 87
R. pneumotropicus (P.pneumotropica) ade	Culture/PCR	RADS JPN	24-Feb-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	24-Feb-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	24-Feb-2023	0 / 1	0 / 87
CPIL (Tyzzer's Disease) ac	Exam/MFIA/PCR	RADS JPN	08-Mar-2023	0 / 16	0 / 282
Pneumocystis sp. ac	MFIA/PCR	RADS JPN	08-Mar-2023	0 / 16	0 / 262
C. bovis bde	PCR	RADS JPN	24-Feb-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	24-Feb-2023	0 / 1	0 / 87
Helminths ade	Exam/PCR	RADS JPN	24-Feb-2023	0 / 1	0 / 107
Enteric Protozoa ade	Exam/PCR	RADS JPN	24-Feb-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	08-Mar-2023	0 / 16	0 / 262
PVM ac	MFIA/PCR	RADS JPN	08-Mar-2023	0 / 16	0 / 262
MHV ace	MFIA/PCR	RADS JPN	08-Mar-2023	0 / 16	0 / 279
MVM ac	MFIA/PCR	RADS JPN	08-Mar-2023	0 / 16	0 / 262
MPV ac	MFIA/PCR	RADS JPN	08-Mar-2023	0 / 16	0 / 262
MNV ace	MFIA/PCR	RADS JPN	08-Mar-2023	0 / 16	0 / 279
TMEV (GDVII) ac	MFIA/PCR	RADS JPN	08-Mar-2023	0 / 16	0 / 262
REO ac	MFIA/PCR	RADS JPN	08-Mar-2023	0 / 16	0 / 262
EDIM ac	MFIA/PCR	RADS JPN	08-Mar-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	24-Feb-2023	0 / 1	0 / 87
C. rodentium ade	Culture/PCR	RADS JPN	24-Feb-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	24-Feb-2023	0 / 1	0 / 87
H. bilis ade	PCR	RADS JPN	24-Feb-2023	0 / 1	0 / 87
H. hepaticus ade	PCR	RADS JPN	24-Feb-2023	0 / 1	0 / 87
Helicobacter sp. ade	PCR	RADS JPN	24-Feb-2023	0 / 1	0 / 87
M. pulmonis ac	MFIA/PCR	RADS JPN	08-Mar-2023	0 / 16	0 / 262
R. heylII (P.pneumotropica) ade	Culture/PCR	RADS JPN	24-Feb-2023	0 / 1	0 / 87
R. pneumotropicus (P.pneumotropica) ade	Culture/PCR	RADS JPN	24-Feb-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	24-Feb-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	24-Feb-2023	0 / 1	0 / 87
CPIL (Tyzzer's Disease) ac	Exam/MFIA/PCR	RADS JPN	08-Mar-2023	0 / 16	0 / 282
C. bovis bde	PCR	RADS JPN	24-Feb-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	24-Feb-2023	0 / 1	0 / 87
Helminths ade	Exam/PCR	RADS JPN	24-Feb-2023	0 / 1	0 / 107
Enteric Protozoa ade	Exam/PCR	RADS JPN	24-Feb-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	14-Mar-2023	0 / 10	0 / 328
PVM ac	PCR	RADS JPN	14-Mar-2023	0 / 10	0 / 328
MHV ac	PCR	RADS JPN	14-Mar-2023	0 / 10	0 / 328
MVM ac	PCR	RADS JPN	14-Mar-2023	0 / 10	0 / 328
MPV ac	PCR	RADS JPN	14-Mar-2023	0 / 10	0 / 328
MNV ac	PCR	RADS JPN	14-Mar-2023	0 / 10	0 / 328
TMEV (GDVII) ac	PCR	RADS JPN	14-Mar-2023	0 / 10	0 / 328
REO ac	PCR	RADS JPN	14-Mar-2023	0 / 10	0 / 328
EDIM ac	PCR	RADS JPN	14-Mar-2023	0 / 10	0 / 328
LCMV a	PCR	RADS JPN	06-Mar-2023	0 / 12	0 / 184
ECTRO a	PCR	RADS JPN	06-Mar-2023	0 / 12	0 / 184
MAV a	PCR	RADS JPN	06-Mar-2023	0 / 12	0 / 184
MCMV a	PCR	RADS JPN	06-Mar-2023	0 / 12	0 / 184
K a	PCR	RADS JPN	06-Mar-2023	0 / 12	0 / 184
POLY a	PCR	RADS JPN	06-Mar-2023	0 / 12	0 / 184
HANT a	PCR	RADS JPN	06-Mar-2023	0 / 12	0 / 184
MTLV a	PCR	RADS JPN	06-Mar-2023	0 / 12	0 / 184
LDV a	PCR	RADS JPN	06-Mar-2023	0 / 12	0 / 184
MuCPV a	PCR	RADS JPN	06-Mar-2023	0 / 12	0 / 184
Microbiology					
B. bronchiseptica abc	Culture/PCR	RADS JPN	14-Mar-2023	0 / 45	0 / 852
C. rodentium abc	Culture/PCR	RADS JPN	14-Mar-2023	0 / 45	0 / 852
F. rodentium (CAR Bacillus) a	PCR	RADS JPN	06-Mar-2023	0 / 12	0 / 184
C. kutscheri abc	Culture/PCR	RADS JPN	14-Mar-2023	0 / 45	0 / 852
H. bilis ac	PCR	RADS JPN	14-Mar-2023	0 / 10	0 / 328
H. hepaticus ac	PCR	RADS JPN	14-Mar-2023	0 / 10	0 / 328
Helicobacter sp. ac	PCR	RADS JPN	14-Mar-2023	0 / 10	0 / 328
M. pulmonis ac	PCR	RADS JPN	14-Mar-2023	0 / 10	0 / 328
R. heylII (P.pneumotropica) abc	Culture/PCR	RADS JPN	14-Mar-2023	0 / 45	0 / 852
R. pneumotropicus (P.pneumotropica) abc	Culture/PCR	RADS JPN	14-Mar-2023	0 / 45	0 / 852
P. aeruginosa abc	Culture/PCR	RADS JPN	14-Mar-2023	0 / 45	0 / 852
Salmonella sp. abc	Culture/PCR	RADS JPN	14-Mar-2023	0 / 45	0 / 852
Staph. aureus abc	Culture/PCR	RADS JPN	14-Mar-2023	0 / 45	0 / 852
S. moniliformis a	PCR	RADS JPN	06-Mar-2023	0 / 12	0 / 184
Strep. pneumoniae abc	Culture/PCR	RADS JPN	14-Mar-2023	0 / 45	0 / 852
Beta Strep. sp. a	Culture/PCR	RADS JPN	06-Mar-2023	0 / 12	0 / 184
CPIL (Tyzzer's Disease) ac	Exam/PCR	RADS JPN	14-Mar-2023	0 / 10	0 / 328
Pneumocystis sp. ac	PCR	RADS JPN	14-Mar-2023	0 / 10	0 / 328

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	14-Mar-2023	0 / 10	0 / 328
Pathology					
Gross Exam ad	Exam	RADS JPN	06-Mar-2023	0 / 12	0 / 184
Parasitology					
Ectoparasites a	Exam/PCR	RADS JPN	06-Mar-2023	0 / 12	0 / 184
Helminths a	Exam/PCR	RADS JPN	06-Mar-2023	0 / 12	0 / 184
Enteric Protozoa a	Exam/PCR	RADS JPN	06-Mar-2023	0 / 12	0 / 184
E. cuniculi a	PCR	RADS JPN	06-Mar-2023	0 / 12	0 / 184

* 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	07-Mar-2023	0 / 13	0 / 534
PVM ac	PCR	RADS JPN	07-Mar-2023	0 / 13	0 / 534
MHV ac	PCR	RADS JPN	07-Mar-2023	0 / 13	0 / 534
MVM ac	PCR	RADS JPN	07-Mar-2023	0 / 13	0 / 534
MPV ac	PCR	RADS JPN	07-Mar-2023	0 / 13	0 / 534
MNV ac	PCR	RADS JPN	07-Mar-2023	0 / 13	0 / 534
TMEV (GDVII) ac	PCR	RADS JPN	07-Mar-2023	0 / 13	0 / 534
REO ac	PCR	RADS JPN	07-Mar-2023	0 / 13	0 / 534
EDIM ac	PCR	RADS JPN	07-Mar-2023	0 / 13	0 / 534
LCMV a	PCR	RADS JPN	06-Mar-2023	0 / 20	0 / 308
ECTRO a	PCR	RADS JPN	06-Mar-2023	0 / 20	0 / 308
MAV a	PCR	RADS JPN	06-Mar-2023	0 / 20	0 / 308
MCMV a	PCR	RADS JPN	06-Mar-2023	0 / 20	0 / 308
K a	PCR	RADS JPN	06-Mar-2023	0 / 20	0 / 308
POLY a	PCR	RADS JPN	06-Mar-2023	0 / 20	0 / 308
HANT a	PCR	RADS JPN	06-Mar-2023	0 / 20	0 / 308
MTLV a	PCR	RADS JPN	06-Mar-2023	0 / 20	0 / 308
LDV a	PCR	RADS JPN	06-Mar-2023	0 / 20	0 / 308
MuCPV a	PCR	RADS JPN	06-Mar-2023	0 / 20	0 / 308
Microbiology					
B. bronchiseptica abc	Culture/PCR	RADS JPN	07-Mar-2023	0 / 60	0 / 1,369
C. rodentium abc	Culture/PCR	RADS JPN	07-Mar-2023	0 / 60	0 / 1,369
F. rodentium (CAR Bacillus) a	PCR	RADS JPN	06-Mar-2023	0 / 20	0 / 308
C. kutscheri abc	Culture/PCR	RADS JPN	07-Mar-2023	0 / 60	0 / 1,369
H. bilis ac	PCR	RADS JPN	07-Mar-2023	0 / 13	0 / 534
H. hepaticus ac	PCR	RADS JPN	07-Mar-2023	0 / 13	0 / 534
Helicobacter sp. ac	PCR	RADS JPN	07-Mar-2023	0 / 13	0 / 534
M. pulmonis ac	PCR	RADS JPN	07-Mar-2023	0 / 13	0 / 534
R. heylII (P.pneumotropica) abc	Culture/PCR	RADS JPN	07-Mar-2023	0 / 60	0 / 1,369
R. pneumotropicus (P.pneumotropica) abc	Culture/PCR	RADS JPN	07-Mar-2023	0 / 60	0 / 1,369
P. aeruginosa abc	Culture/PCR	RADS JPN	07-Mar-2023	0 / 60	0 / 1,369
Salmonella sp. abc	Culture/PCR	RADS JPN	07-Mar-2023	0 / 60	0 / 1,369
Staph. aureus abc	Culture/PCR	RADS JPN	07-Mar-2023	0 / 60	0 / 1,369
S. moniliformis a	PCR	RADS JPN	06-Mar-2023	0 / 20	0 / 308
Strep. pneumoniae abc	Culture/PCR	RADS JPN	07-Mar-2023	0 / 60	0 / 1,369
Beta Strep. sp. a	Culture/PCR	RADS JPN	06-Mar-2023	0 / 20	0 / 308
CPIL (Tyzzer's Disease) ac	Exam/PCR	RADS JPN	07-Mar-2023	0 / 13	0 / 534
Pneumocystis sp. ac	PCR	RADS JPN	07-Mar-2023	0 / 13	0 / 534

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	07-Mar-2023	0 / 13	0 / 534
Pathology					
Gross Exam ad	Exam	RADS JPN	06-Mar-2023	0 / 20	0 / 308
Parasitology					
Ectoparasites a	Exam/PCR	RADS JPN	06-Mar-2023	0 / 20	0 / 308
Helminths a	Exam/PCR	RADS JPN	06-Mar-2023	0 / 20	0 / 308
Enteric Protozoa a	Exam/PCR	RADS JPN	06-Mar-2023	0 / 20	0 / 308
E. cuniculi a	PCR	RADS JPN	06-Mar-2023	0 / 20	0 / 308

* dashes indicate not tested during specified period.

HOUSED STRAINS

Outbred
SHO

Other Strains
Congenic
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	22-Mar-2023	0 / 13	0 / 421
PVM ac	PCR	RADS JPN	22-Mar-2023	0 / 13	0 / 421
MHV ac	PCR	RADS JPN	22-Mar-2023	0 / 13	0 / 421
MVM ac	PCR	RADS JPN	22-Mar-2023	0 / 13	0 / 421
MPV ac	PCR	RADS JPN	22-Mar-2023	0 / 13	0 / 421
MNV ac	PCR	RADS JPN	22-Mar-2023	0 / 13	0 / 421
TMEV (GDVII) ac	PCR	RADS JPN	22-Mar-2023	0 / 13	0 / 421
REO ac	PCR	RADS JPN	22-Mar-2023	0 / 13	0 / 421
EDIM ac	PCR	RADS JPN	22-Mar-2023	0 / 13	0 / 421
LCMV a	PCR	RADS JPN	07-Mar-2023	0 / 8	0 / 244
ECTRO a	PCR	RADS JPN	07-Mar-2023	0 / 8	0 / 244
MAV a	PCR	RADS JPN	07-Mar-2023	0 / 8	0 / 244
MCMV a	PCR	RADS JPN	07-Mar-2023	0 / 8	0 / 244
K a	PCR	RADS JPN	07-Mar-2023	0 / 8	0 / 244
POLY a	PCR	RADS JPN	07-Mar-2023	0 / 8	0 / 244
HANT a	PCR	RADS JPN	07-Mar-2023	0 / 8	0 / 244
MTLV a	PCR	RADS JPN	07-Mar-2023	0 / 8	0 / 244
LDV a	PCR	RADS JPN	07-Mar-2023	0 / 8	0 / 244
MuCPV a	PCR	RADS JPN	07-Mar-2023	0 / 8	0 / 244
Microbiology					
B. bronchiseptica abc	Culture/PCR	RADS JPN	22-Mar-2023	0 / 56	0 / 1,074
C. rodentium abc	Culture/PCR	RADS JPN	22-Mar-2023	0 / 56	0 / 1,074
F. rodentium (CAR Bacillus) a	PCR	RADS JPN	07-Mar-2023	0 / 8	0 / 244
C. kutscheri abc	Culture/PCR	RADS JPN	22-Mar-2023	0 / 56	0 / 1,074
H. bilis ac	PCR	RADS JPN	22-Mar-2023	0 / 13	0 / 421
H. hepaticus ac	PCR	RADS JPN	22-Mar-2023	0 / 13	0 / 421
Helicobacter sp. ac	PCR	RADS JPN	22-Mar-2023	0 / 13	0 / 421
M. pulmonis ac	PCR	RADS JPN	22-Mar-2023	0 / 13	0 / 421
R. heylII (P.pneumotropica) abc	Culture/PCR	RADS JPN	22-Mar-2023	0 / 56	0 / 1,074
R. pneumotropicus (P.pneumotropica) abc	Culture/PCR	RADS JPN	22-Mar-2023	0 / 56	0 / 1,074
P. aeruginosa abc	Culture/PCR	RADS JPN	22-Mar-2023	0 / 56	0 / 1,074
Salmonella sp. abc	Culture/PCR	RADS JPN	22-Mar-2023	0 / 56	0 / 1,074
Staph. aureus abc	Culture/PCR	RADS JPN	22-Mar-2023	0 / 56	0 / 1,074
S. moniliformis a	PCR	RADS JPN	07-Mar-2023	0 / 8	0 / 244
Strep. pneumoniae abc	Culture/PCR	RADS JPN	22-Mar-2023	0 / 56	0 / 1,074
Beta Strep. sp. a	Culture/PCR	RADS JPN	07-Mar-2023	0 / 8	0 / 244
CPIL (Tyzzzer's Disease) ac	Exam/PCR	RADS JPN	22-Mar-2023	0 / 13	0 / 421
Pneumocystis sp. ac	PCR	RADS JPN	22-Mar-2023	0 / 13	0 / 421

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	22-Mar-2023	0 / 13	0 / 421
Pathology					
Gross Exam ad	Exam	RADS JPN	07-Mar-2023	0 / 8	0 / 244
Parasitology					
Ectoparasites a	Exam/PCR	RADS JPN	07-Mar-2023	0 / 8	0 / 244
Helminths a	Exam/PCR	RADS JPN	07-Mar-2023	0 / 8	0 / 244
Enteric Protozoa a	Exam/PCR	RADS JPN	07-Mar-2023	0 / 8	0 / 244
E. cuniculi a	PCR	RADS JPN	07-Mar-2023	0 / 8	0 / 244

* dashes indicate not tested during specified period.

HOUSED STRAINS

Other Strains

Congenic

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