

Health monitoring of rat colonies can be conducted through a combination of pathology, serology, microbiology, parasitology and PCR. In quarantine situations, PCR panels can be paired with serological tests to provide deeper insights into previous, inactive infections when importing animals.

We provide different health monitoring programs for quarterly or yearly monitoring according FELASA recommendations and more. Also, any kind of custom monitoring is possible.

Different sample types can be used for the different diagnostic procedures:

S - Serum	DS - Dry swab
BS - Blot spot	MS - Microbiology swab (medium swab)
T - Tissue	DSS - Deep skin scrape
F - Feces	FS - Fur swab

VIRUSES

Serology: ELISA	Sample type	Virology S	Virology L	Virology XL	Virology XXL
Kilham rat virus (KRV)	S, BS	✓	✓	✓	✓
Rat minute virus (RMV)	S, BS	✓	✓	✓	✓
Rat parvovirus (RPV)	S, BS	✓	✓	✓	✓
Toolan's H-1 virus (H-1)	S, BS	✓	✓	✓	✓
Pneumonia virus of mice (PVM)	S, BS	✓	✓	✓	✓
Rat coronavirus/Sialodacryoadenitis virus (RCV/SDAV)	S, BS	✓	✓	✓	✓
Rat theilovirus (RTV)	S, BS	✓	✓	✓	✓
Hantavirus	S, BS		✓	✓	✓
Murine Adenovirus type 1/2 (MAD-1, MAD-2)	S, BS		✓	✓	✓
Mammalian orthoreovirus type 3 (REO-3)	S, BS		✓	✓	✓
Sendai virus (SEN)	S, BS		✓	✓	✓
Lymphocytic choriomeningitis virus (LCV)	S, BS			✓	✓
PIV-3	S, BS				✓

PCR	Sample type	Virology S	Virology L	Virology XL	Virology XXL
Rat coronavirus/Sialodacryoadenitis virus (RCV/SDAV)	T, DS				
Rat theilovirus (RTV)	F, DS				
Pneumonia virus of mice (PVM)	F, DS				
Lymphocytic choriomeningitis virus (LCV)	DS				
Mammalian orthoreovirus type 3 (REO-3)	F, DS				
Sendai virus (SEN)	T, DS				
Hantaviruses					
Orthohantavirus hantanense	F, DS				
Orthohantavirus prospectense	F, DS				
Orthohantavirus seoulense	F, DS				
Orthohantavirus sinnombreense	F, DS				
Kilham rat virus (KRV)	F, T				
Rat minute virus (RMV)	F, T				
Rat parvovirus (RPV)	F, T				
Toolan's H-1 virus (H-1)	F, T				
Murine Adenovirus type 1 (MAD-1)	F, DS				
Murine Adenovirus type 2 (MAD-2)	F, DS				

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BACTERIA / FUNGI

Culture / MALDI-TOF	Sample type	Microbiology S	Microbiology L	MicrobiologyXL	Microbiology XXL
Microbiology (MB)	T, MS	✓	✓	✓	✓
Citrobacter rodentium	T, MS	✓	✓	✓	✓
Corynebacterium kutscheri	T, MS	✓	✓	✓	✓
Klebsiella oxytoca	T, MS	✓	✓	✓	✓
Klebsiella pneumoniae	T, MS	✓	✓	✓	✓
Pasteurellaceae	T, MS	✓	✓	✓	✓
Pseudomonas aeruginosa	T, MS	✓	✓	✓	✓
Salmonella spp.	T, MS	✓	✓	✓	✓
Staphylococcus aureus	T, MS	✓	✓	✓	✓
Streptococci, β-haem. (A, B, C, G)	T, MS	✓	✓	✓	✓
Streptococcus pneumoniae	T, MS	✓	✓	✓	✓

Culture / MALDI-TOF	Sample type	Microbiology S	Microbiology L	MicrobiologyXL	Microbiology XXL
Swab, aerobic	MS				
Swab, anaerobic	MS				
Mycology	MS				

ELISA	Sample type	Microbiology S	Microbiology L	MicrobiologyXL	Microbiology XXL
Rodentibacter pneumotropicus / heylii	S, BS				
Pasteurella multocida	S, BS				
Pneumocystis carinii	S, BS				
Mannheimia haemolytica	S, BS				
Clostridium piliforme	S, BS	✓	✓	✓	✓
Mycoplasma pulmonis	S, BS	✓	✓	✓	✓
Mycoplasma arthritis	S, BS				✓
Filobacterium rodentium (CARB)	S, BS		✓	✓	✓

PCR	Sample type	Microbiology S	Microbiology L	MicrobiologyXL	Microbiology XXL
Citrobacter rodentium	F, DS				
Clostridium piliforme	F, DS				
Corynebacterium bovis	F, DS				
Corynebacterium kutscheri	F, DS				
Helicobacter spp.					
Helicobacter bilis	F, DS	✓	✓	✓	✓
Helicobacter hepaticus					
Helicobacter typhlonius					
Helicobacter rodentium	F, DS				
Klebsiella oxytoca	F, DS				
Klebsiella pneumoniae	F, DS				
Mycoplasma pulmonis	DS				
Pseudomonas aeruginosa	F, DS				
Proteus mirabilis	F, DS				
Rodentibacter heylii	F, DS				
Rodentibacter pneumotropicus	F, DS				
Staphylococcus aureus	F, DS				
Salmonella spp.	F, DS				
Streptobacillus moniliformis	DS		✓	✓	✓
Streptococcus agalactiae (B)	DS				
Streptococcus canis (G)	DS				
Streptococcus equi (C)	DS				
Streptococcus pyogenes (A)	DS				
Streptococcus pneumoniae	F, DS				
Bordetella bronchiseptica	DS				
Bordetella hinzii	DS				
Bordetella pseudohinzii	DS				
Filobacterium rodentium (CARB)	DS				
Pneumocystis carinii	T		✓	✓	✓

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PARASITES

Microscopy, Flotation	Sample type	Parasitology S	Parasitology L	Parasitology XL	Parasitology XXL
Endoparasites (ENP)					
Helminths	F	✓	✓	✓	✓
Protozoa	F	✓	✓	✓	✓
Ectoparasites (ECP)	FS	✓	✓	✓	✓
Scabies mites	DSS				✓

ELISA	Sample type	Parasitology S	Parasitology L	Parasitology XL	Parasitology XXL
Cryptosporidium muris	F				✓
Encephalitozoon cuniculi	F				✓

PCR	Sample type	Parasitology S	Parasitology L	Parasitology XL	Parasitology XXL
Aspiculuris tetraptera	F				
Eimeria spp.	F				
Entamoeba muris	F				
Cryptosporidium muris	F				
Chilomastix spp.	F				
Giardia muris	F				✓
Hexamastix spp.	F				
Spiroplasma muris	F				
Syphacia muris	F				
Syphacia obvelata	F				
Tritrichomonas muris	F				
Myobia musculi	FS				
Myocoptes musculinus	FS				

Diagnostic service	Method	Pathology	Pathology	Pathology	Pathology
Postmortem examination	Necropsy	✓	✓	✓	✓
Histological exam. (per organ)	Microscopy				