

**HEALTH MONITORING REPORT** (SnKTT1-19 mouse)
In accordance with FELASA recommendations

Date of issue: 12.07.19 KO		Unit: renovated Snellmannia, conventional; in the use from September 2018 (pigs arrived in August); rodents mainly in IVC; (See also environmental screen from ScanClime filter)			
Species: Mouse		Strain: Rag1 KO; C57BL/6J0laHsd; DMSXL; P301S tau			
Latest test date: 17.06.19		Species and strains present within the unit: rat, rabbit, pig			
	Live animals	Latest results	Testing laboratory	Test method	Historical results
Viruses					
Ectromelia Virus	serum	0/3	SDL	BEAD	NT
Epizootic Diarrhoea of Infant Mice	serum	0/3	SDL	BEAD	NT
Hantaan Virus	serum	0/3	SDL	BEAD	NT
K Virus	serum	0/3	SDL	BEAD	NT
Lactate Dehydrogenase Elevating Virus	serum	0/3	SDL	BEAD	NT
Lymphocytic Choriomeningitis Virus	serum	0/3	SDL	BEAD	NT
Minute Virus of Mice	serum	0/3	SDL	BEAD	NT
Mouse Adenovirus 1	serum	0/3	SDL	BEAD	NT
Mouse Adenovirus 2	serum	0/3	SDL	BEAD	NT
Mouse Cytomegalovirus	serum	0/3	SDL	BEAD	NT
Mouse Encephalomyelitis Virus (GDVII TMEV)	serum	0/3	SDL	BEAD	NT
Mouse Hepatitis Virus	serum	0/3	SDL	BEAD	NT
Mouse Parvovirus	serum	0/3	SDL	BEAD	NT
	faecal	NT	SDL	PCR	NT
	pooled faecal	0/3	SDL	PCR	NT
NS1	serum	0/3	SDL	BEAD	NT
Mouse Thymic Virus	serum	0/3	SDL	BEAD	NT
Murine Norovirus	serum	0/3	SDL	BEAD	NT
	pooled faecal	NT	SDL	RT/PCR	NT
Pneumonia Virus of Mice	serum	0/3	SDL	BEAD	NT
Polyoma Virus	serum	0/3	SDL	BEAD	NT
Reovirus Type 3	serum	0/3	SDL	BEAD	NT
Sendai Virus	serum	0/3	SDL	BEAD	NT
Bacteria, Mycoplasma and Fungi					
<i>Bordetella bronchiseptica</i>	oral swab	0/4	SDL/ Movet	CULT	NT
CAR bacillus	serum	0/3	SDL	BEAD	NT
<i>Citrobacter rodentium</i>	oral and faecal	0/4	SDL/ Movet	CULT	NT
<i>Clostridium piliforme</i>	serum	0/4	SDL	BEAD	NT
<i>Corynebacterium kutscheri</i>	oral swab	0/4	SDL/ Movet	CULT	NT
<i>Helicobacter spp.</i>	pooled faecal	NT	SDL	PCR	NT
	faecal	0/4	SDL	PCR	NT
<i>Klebsiella spp.</i>	oral and faecal	0/4	SDL/ Movet	CULT	NT
<i>Mycoplasma spp</i>	serum	0/3	SDL	BEAD	NT
<i>Pasteurella pneumotropica</i> (Heyl; Jawetz)	oral swab	0/4	Movet	CULT	NT
<i>Pasteurella pneumotropica</i> (Heyl; Jawetz)*	faecal	0/1	SDL	PCR	NT
<i>Pasteurellaceae</i>	oral swab	0/4	SDL/ Movet	CULT	NT
<i>Pneumocystis carinii</i>	serum	0/4	SDL	BEAD	NT
<i>Pseudomonas aeruginosa</i>	oral and faecal	0/4	SDL/ Movet	CULT	NT
<i>Salmonella spp.</i>	oral and faecal	0/4	SDL/ Movet	CULT	NT
β -haemolytic <i>Streptococci</i>	oral and faecal	0/4	SDL/ Movet	CULT	NT
<i>Staphylococcus aureus</i>	oral swab	0/4	Movet	CULT	NT
<i>Staphylococcus aureus</i>	faecal media	0/1	SDL	CULT	NT
<i>Staphylococcus aureus</i>	faecal	0/1	SDL	PCR	NT
<i>Streptobacillus moniliformis</i>	oral and faecal	0/4	SDL/ Movet	CULT	NT
<i>Streptococcus pneumoniae</i>	swab	0/4	SDL/ Movet	CULT	NT
<i>Yersinia spp.</i>	oral and faecal	0/4	SDL/ Movet	CULT	NT
Parasites					
Arthropods	fur	0/3	SDL	MIC	NT
Encephalitozoon cuniculi	serum	0/3	SDL	BEAD	NT
Intestinal protozoa					
<i>Entamoeba spp</i>	faecal pellets	0/1	SDL	PCR	NT
<i>Entamoeba muris</i>	pooled pellets	0/3	SDL	PCR	NT
<i>Giardia, Spironucleus</i>	faecal pellets	0/3	SDL	MICR	NT
<i>Trichomonas, Tetratrichomonas, Enteromonas, Chilomastix sp</i>	faecal pellets	0/3	SDL	MICR	NT

**HEALTH MONITORING REPORT** (SnKTT1-19 mouse)
In accordance with FELASA recommendations

Faecal ova	faecal pellets	0/3	SDL/AB	FLOT/MICR	NT
Intestinal helminths	faecal pellets	0/3	SDL/AB	MICR	NT
<i>Aspicularis tetraptera</i>	faecal pellets	0/3	SDL/AB	FLOT/MICR	NT
<i>Aspicularis tetraptera</i>	faecal pellets	0/1	SDL	PCR	NT
<i>Syphacia obvelata</i>	faecal pellets	0/3	SDL/AB	FLOT/MICR	NT
<i>Syphacia obvelata</i>	faecal pellets	0/1	SDL	PCR	NT
Necropsy					
External Lesions/Abnormalities	animal	0/3	SDL	visual	NT
Internal Lesions/Abnormalities	animal	0/3	SDL	MICR	NT

	Scanlime filter	Latest results	Testing laboratory	Test method	Results 10.12.18
Viruses					
Ectromelia Virus	filter	0/4	SDL	PCR	NT
Epizootic Diarrhoea of Infant Mice	filter	0/4	SDL	PCR	0/1
Hantaan Virus	filter	NT	SDL	PCR	NT
K Virus	filter	NT	SDL	PCR	NT
Lactate Dehydrogenase Elevating Virus	filter	NT	SDL	PCR	NT
Lymphocytic Choriomeningitis Virus	filter	0/4	SDL	PCR	NT
Minute Virus of Mice	filter	0/4	SDL	PCR	NT
Mouse Adenovirus 1	filter	0/4	SDL	PCR	NT
Mouse Adenovirus 2	filter	0/4	SDL	PCR	NT
Mouse Cytomegalovirus	filter	NT	SDL	PCR	NT
Mouse Encephalomyelitis Virus (GDVII TMEV)	filter	0/4	SDL	PCR	0/1
Mouse Hepatitis Virus	filter	0/4	SDL	PCR	0/1
Mouse Parvovirus	filter	0/4	SDL	PCR	0/1
Mouse Thymic Virus	filter	NT	SDL	PCR	NT
Murine Norovirus	filter	0/4	SDL	PCR	0/1
Pneumonia Virus of Mice	filter	0/4	SDL	PCR	NT
Polyoma Virus	filter	NT	SDL	PCR	NT
Reovirus Type 3	filter	0/4	SDL	PCR	NT
Sendai Virus	filter	0/4	SDL	PCR	NT

Bacteria, Mycoplasma and Fungi					
<i>Bordetella bronchiseptica</i>	filter	0/4	SDL	PCR	NT
CAR bacillus	filter	0/4	SDL	PCR	NT
<i>Citrobacter rodentium</i>	filter	0/4	SDL	PCR	NT
<i>Clostridium piliforme</i>	filter	0/4	SDL	PCR	NT
<i>Corynebacterium kutscheri</i>	filter	0/4	SDL	PCR	NT
<i>Cryptosporidium spp</i>	filter	0/4	SDL	PCR	NT
<i>Helicobacter spp.</i>	filter	0/4	SDL	PCR	0/1
<i>Helicobacter bilis, ganmani, hepaticus, mastomyrinus, rodentium, typhlonius</i>	filter	0/4	SDL	PCR	NT
<i>Klebsiella oxytoca.</i>	filter	0/4	SDL	PCR	NT
<i>Klebsiella pneumoniae</i>	filter	0/4	SDL	PCR	NT
<i>Mycoplasma pulmonis</i>	filter	0/4	SDL	PCR	NT
<i>Pasteurellaceae</i>	filter	NT	SDL	PCR	NT
<i>Pasteurella pneumotropica (Heyl; Jawetz)</i>	filter	0/4	SDL	PCR	0/1
<i>Pseudomonas aeruginosa</i>	filter	0/4	SDL	PCR	NT
<i>Pneumocystis murina</i>	filter	NT	SDL	PCR	NT
<i>Proteus mirabilis</i>	filter	0/4	SDL	PCR	NT
<i>Salmonella spp.</i>	filter	0/4	SDL	PCR	NT
<i>Streptobacillus moniliformis</i>	filter	0/4	SDL	PCR	NT
β -haemolytic <i>Streptococci</i> (Groups A, B, C and G)	filter	0/4	SDL	PCR	NT
<i>Staphylococcus aureus</i>	filter	0/4	SDL	PCR	0/1
<i>Streptococcus pneumoniae</i>	filter	0/4	SDL	PCR	NT
<i>Yersinia spp.</i>	filter	NT	SDL	PCR	NT

Parasites					
Mycopites	filter	0/4	SDL	PCR	NT
Myobia/Radfordia	filter	0/4	SDL	PCR	NT
Encephalitozoon cuniculi	filter	NT	SDL	PCR	NT
Intestinal protozoa	filter	NT	SDL	PCR	NT
<i>Entamoeba spp</i>	filter	NT	SDL	PCR	NT

**HEALTH MONITORING REPORT** (SnKTT1-19 mouse)
In accordance with FELSA recommendations

<i>Entamoeba muris</i>	filter	0/4	SDL	PCR	NT
<i>Giardia spp</i>	filter	0/4	SDL	PCR	0/1
<i>Spironucleus muris</i>	filter	0/4	SDL	PCR	NT
<i>Trichomonas sp, Tetratrichomonas sp, Enteromonas sp, Chliomastix sp, Tritrichomonas spp</i>	filter	NT	SDL	PCR	NT
Intestinal helminths	filter	NT	SDL/AB	PCR	NT
<i>Aspiculuris tetraptera</i>	filter	0/4	SDL	PCR	0/1
<i>Syphacia obvelata</i>	filter	0/4	SDL	PCR	0/1

Same unit:

Snellmania conventional — *Staphylococcus aureus* in two rats (room 2267; Scanclime 005 and room 267/ME) by cultivation and PCR.

From other units of LAC:

Bioteknia 1 — *Proteus mirabilis* as tested from the same filter and positive for mice and rats. *Proteus mirabilis* is not included in standard FELSA exclusion profiles

Please see for former tests before decontamination from <http://www.uef.fi/en/web/kek/elainten-terveys>

Historical results:**10.12.18**

Canthia — *Pasteurella pneumotropica* by PCR in mice rooms 1224/2, 1225, 1230 and 1231

Bioteknia 2 — *Pasteurella pneumotropica* in mice pooled faecal PCR rooms 04119 and 0430 and oral for the 04119; *Entamoeba muris* from mice rooms 04119.

Helicobacter spp by PCR did not confirm in double testing and therefore shown as neg.

4.06.18:

Barrier — *Pasteurella pneumotropica* pos from the room 1258/2 by oral sample by PCR, pooled sample involving the same mouse was neg. **Testing for *Pasteurella pneumotropica* is active, no pos results.**

Canthia— *Pasteurella pneumotropica* in mice rooms 1224/2 and 1255;

Entamoeba muris from mice rooms 1224/2; 1226; 1228; 1230; 1231 and rat room 1233

Staphylococcus aureus from rabbit room 1184

Bioteknia 2 — *Entamoeba muris* from rat by microscopy room 0419.

2017**Snellmania barrier and conventional unit under renovation.**

Pasteurella pneumotropica pos by oral sample and/or faecal samples by PCR, from all units, cultivated only from Canthia rats. **Testing for *Pasteurella pneumotropica* is active, no pos cultivation results.**

Entamoeba spp pooled faecal sample in mice Canthia, Snellmania conventional and Bioteknia 2.

28.11-2.12.16– Snellmania conventional — *Entamoeba spp* pooled faecal sample in mice (rooms 2216, 2255)

Canthia — *Entamoeba spp* pooled faecal sample in mice (rooms 1224) and in rats (rooms 1226, 1229, 1233)

No positive findings on testing 2015 - May; Nov and 2016 - April.

Former outbreaks:

2014 in Canthia 1 — *Helicobacter rodentium* was found rats and in Canthia 2 mice were positive *H. hepaticus* and *H. rodentium*); Murine norovirus. All mice killed before decontamination. **Canthia unit was under major cleaning and decontamination with hydrogen peroxide in Dec 2014. Only rats were kept and treated to eliminate *Helicobacter spp* (Nov 2014...February 2015) and additionally tested in March and April 2015. All results neg.**

Mouse Parvovirus (MPV) found from mesenteric lymph nodes and faecal samples in mice in May 2011 from Bioteknia 2, Canthia 1 Snellmania Barrier and –Conventional. Barrier was renovated and biodecontaminated. New animals arrived 19. July 2012. From other units all samples neg since 2012.

A. tetraptera in Canthia 1 found in 2011. Rodents were medicated with fenbendazole January-March 2012. All samples after that neg.

1. Historical and latest test results: Number of animals positive / number of tested animals; NT not tested.
2. Abbreviations of laboratories: SDL: Surrey Diagnostics Limited, UK; Kuopio; Movet – Kuopio, Finland; LAC – Lab Animal Centre, University of Eastern Finland, Kuopio.
3. Abbreviations of methods: BEAD – bead multiplex assay; MFIA: Multiplexed fluorometric immunoassay; CULT: Culture; PCR: Polymerase Chain Reaction; ELISA - enzyme-linked immunosorbent assay; IFA - Immunofluorescent assay; MICR: Microscopy; FLOT – Faecal Flotation; STEREO – stereomicroscope; visual – visual observation

Pooled faecal pellets – usually collected from 5 different animals from same room;

Swab/pooled – also pooled faecal pellets in media collected from animals used for serology testing – usually 2 animals per room