



## HEALTH MONITORING REPORT (SnTT1-19rat)

In accordance with FELASA recommendations

<b>Date of issue:</b> 12.07.19KO		<b>Unit:</b> renovated Snellmannia, conventional; in the use from September 2018 (pigs arrived in August); rodents mainly in IVC; (See also environmental screen from ScanClime filter)				
<b>Species:</b> Rat		<b>Strain:</b> RccHan:WIST; HsdOla:LH; RjOrl:LE				
<b>Latest test date:</b> 17.06.19		<b>Species and strains present within the unit:</b> Mouse; inbred strains, GM- strains; rabbits; pigs				
	<b>Live animals</b>	<b>Latest results</b>	<b>Testing laboratory</b>	<b>Test method</b>	<b>Results 10.12.18</b>	<b>Results 2017</b>
<b>Viruses</b>						
Hantaan Virus	serum	0/5	SDL	BEAD	NT	NT
Kilham Rat Virus	serum	0/5	SDL	BEAD	NT	NT
Lymphocytic Choriomeningitis Virus	serum	0/5	SDL	BEAD	NT	NT
Mouse Adenovirus 1	serum	0/5	SDL	BEAD	NT	NT
Mouse Adenovirus 2	serum	0/5	SDL	BEAD	NT	NT
Pneumonia Virus of Mice	serum	0/5	SDL	BEAD	NT	NT
Rat Parvovirus	serum	0/5	SDL	BEAD	NT	NT
NS1	serum	0/5	SDL	BEAD	NT	NT
Rat Minute Virus	serum	0/5	SDL	BEAD	NT	NT
Rat Rotavirus (Infectious Diarrhoea of Infant Rats) IDIR	serum	0/5	SDL	BEAD	NT	NT
Rat Theilovirus (GDV/II) <sup>a)</sup>	serum	0/5	SDL	BEAD	NT	NT
Reovirus Type 3	serum	0/5	SDL	BEAD	NT	NT
Sendai Virus	serum	0/5	SDL	BEAD	NT	NT
Sialodacryoadenitis Virus	serum	0/5	SDL	BEAD	NT	NT
Toolan's H-1	serum	0/5	SDL	BEAD	NT	NT
<b>Bacteria, Mycoplasma and Fungi</b>						
<i>Bordetella bronchiseptica</i>	oral swab	0/5	SDL/ Movet	CULT	NT	NT
CAR bacillus	serum	0/5	SDL	BEAD	NT	NT
<i>Citrobacter rodentium</i>	oral and faecal	0/5	SDL/ Movet	CULT	NT	NT
<i>Clostridium piliforme</i>	serum	0/5	SDL	BEAD	NT	NT
<i>Corynebacterium kutscheri</i>	oral swab	0/5	SDL/ Movet	CULT	NT	NT
<i>Helicobacter spp.</i>	pooled faecal	NT	SDL	PCR	NT	NT
	faecal	0/5	SDL	PCR	NT	NT
<i>Klebsiella spp.</i>	oral and faecal	0/5	SDL/ Movet	CULT	NT	NT
<i>Mycoplasma spp</i>	serum	0/5	SDL	BEAD	NT	NT
<i>Pasteurella pneumotropica</i> (Heyl; Jawetz)	oral swab	0/5	Movet	CULT	NT	NT
<i>Pasteurella pneumotropica</i> (Heyl; Jawetz)*	faecal	0/4	SDL	PCR	NT	NT
<i>Pasteurellaceae</i>	Oral swab	0/5	SDL/ Movet	CULT	NT	NT
<i>Pneumocystis carinii</i>	serum	0/5	SDL	BEAD	NT	NT
<i>Pseudomonas aeruginosa</i>	oral and faecal	0/5	SDL/ Movet	CULT	NT	NT
<i>Salmonella spp.</i>	oral and faecal	0/5	SDL/ Movet	CULT	NT	NT
$\beta$ -haemolytic <i>Streptococci</i>	oral and faecal	0/5	SDL/ Movet	CULT	NT	NT
<b><i>Staphylococcus aureus</i></b>	<b>oral swab</b>	<b>2/5</b>	Movet	CULT	NT	NT
<i>Staphylococcus aureus</i>	faecal media	0/5	SDL	CULT	NT	NT
<b><i>Staphylococcus aureus</i></b>	<b>faecal</b>	<b>2/4</b>	SDL	PCR	NT	NT
<i>Streptobacillus moniliformis</i>	oral and faecal	0/5	SDL/ Movet	CULT	NT	NT
<i>Streptococcus pneumoniae</i>	swab	0/5	SDL/ Movet	CULT	NT	NT
<i>Yersinia spp.</i>	oral and faecal	0/5	SDL/ Movet	CULT	NT	NT
<b>Parasites</b>						
Arthropods	fur	0/1	SDL	MICR	NT	NT
Encephalitozoon cuniculi	serum	0/5	SDL	BEAD	NT	NT
Intestinal protozoa	faecal pellets	0/1	SDL	MICR	NT	NT
<i>Entamoeba spp</i>	faecal pellets	0/4	SDL	PCR	NT	NT
<i>Entamoeba muris</i>	faecal pellets	0/1	SDL	MICR	NT	NT
<i>Giardia, Spironucleus,</i>	faecal pellets	0/1	SDL	PCR	NT	NT
<i>Trichomonas sp, Tetratrichomonas sp, Enteromonas sp, Chliomastix sp,</i>	faecal pellets	0/1	SDL	PCR	NT	NT
Faecal ova	faecal pellets	0/1	SDL/AB	FLOT/MICR	NT	NT
Intestinal helminths	faecal pellets	0/1	SDL/AB	MICR	NT	NT
<i>Aspicularis tetraptera</i>	faecal pellets	0/1	SDL/AB	FLOT/MICR	NT	NT
<i>Aspicularis tetraptera</i>	faecal	0/4	SDL/AB	PCR	NT	NT
<i>Syphacia muris</i>	faecal pellets	0/1	SDL	FLOT/MICR	NT	NT
<i>Syphacia muris</i>	faecal	0/4	SDL/AB	PCR	NT	NT
<b>Necropsy</b>						

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External Lesions/Abnormalities	animal	0/1	SDL	MIC	NT	NT
Internal Lesions/Abnormalities	animal	0/1	SDL	MIC	NT	NT

	ScanClime filters	Latest results	Testing laboratory	Test method	Results 10.12.18
<b>Viruses</b>					
Hantaan Virus	filter	0/2	SDL	PCR	NT
Kilham Rat Virus	filter	0/2	SDL	PCR	NT
Lymphocytic Choriomeningitis Virus	filter	0/2	SDL	PCR	NT
Mouse Adenovirus 1	filter	0/2	SDL	PCR	NT
Mouse Adenovirus 2	filter	0/2	SDL	PCR	NT
Pneumonia Virus of Mice	filter	0/2	SDL	PCR	NT
Rat Parvovirus	filter	0/2	SDL	PCR	0/2
Rat Minute Virus	filter	0/2	SDL	PCR	NT
Rat Rotavirus (Infectious Diarrhoea of Infant Rats) IDIR	filter	NT	SDL	PCR	NT
Rat Theilovirus (GDVII) <sup>a</sup>	filter	0/2	SDL	PCR	0/2
Reovirus Type 3	filter	0/2	SDL	PCR	NT
Sendai Virus	filter	0/2	SDL	PCR	NT
Sialodacryoadenitis Virus	filter	0/2	SDL	PCR	0/2
Toolan's H-1	filter	0/2	SDL	PCR	NT
<b>Bacteria, Mycoplasma and Fungi</b>					
<i>Bordetella bronchiseptica</i>	filter	0/2	SDL	PCR	NT
CAR bacillus	filter	0/2	SDL	PCR	NT
<i>Citrobacter rodentium</i>	filter	0/2	SDL	PCR	NT
<i>Clostridium piliforme</i>	filter	0/2	SDL	PCR	NT
<i>Corynebacterium kutscheri</i>	filter	0/2	SDL	PCR	NT
<i>Cryptosporidium</i> spp	filter	0/2	SDL	PCR	NT
<i>Helicobacter</i> spp.	filter	0/2	SDL	PCR	0/2
<i>Helicobacter bilis, ganmani, hepaticus, mastomyrinus, rodentium, typhlonius</i>	filter	0/2	SDL	PCR	NT
<i>Klebsiella oxytoca</i> .	filter	0/2	SDL	PCR	NT
<i>Klebsiella pneumoniae</i>	filter	0/2	SDL	PCR	NT
<i>Mycoplasma pulmonis</i>	filter	0/2	SDL	PCR	NT
<i>Pasteurella pneumotropica</i> (Heyl; Jawetz)	filter	0/2	SDL	PCR	0/2
<i>Pasteurellaceae</i>	filter	NT	SDL	PCR	NT
<i>Pneumocystis</i> spp	filter	0/2	SDL	PCR	NT
<i>Proteus mirabilis</i> <sup>#</sup>	filter	0/2	SDL	PCR	NT
<i>Pseudomonas aeruginosa</i>	filter	0/2	SDL	PCR	NT
<i>Salmonella</i> spp.	filter	0/2	SDL	PCR	NT
$\beta$ -haemolytic <i>Streptococci</i> (Groups A, B, C and G)	filter	0/2	SDL	PCR	NT
<i>Staphylococcus aureus</i>	filter	0/2	SDL	PCR	NT
<i>Streptobacillus moniliformis</i>	filter	0/2	SDL	PCR	NT
<i>Streptococcus pneumoniae</i>	filter	0/2	SDL	PCR	NT
<i>Yersinia</i> spp.	filter	NT	SDL	PCR	NT
<b>Parasites</b>					
Mycoptes	filter	0/2	SDL	PCR	NT
Myobia/Radfordia	filter	0/2	SDL	PCR	NT
Encephalitozoon cuniculi	filter	NT	SDL	PCR	NT
Intestinal protozoa	filter	0/2	SDL	PCR	NT
<i>Entamoeba</i> spp	filter	NT	SDL	PCR	0/2
<i>Entamoeba muris</i>	filter	0/2	SDL	PCR	NT
<i>Giardia</i> spp	filter	0/2	SDL	PCR	NT
<i>Spironucleus muris</i>	filter	0/2	SDL	PCR	NT
<i>Trichomonas</i> sp, <i>Tetratrichomonas</i> spp, <i>Enteromonas</i> sp, <i>Chliomastix</i> spp,	filter	NT	SDL	PCR	NT
<i>Tritrichomonas</i> spp	filter	0/2	SDL	PCR	NT
Intestinal helminths	filter	NT	SDL/AB	PCR	NT
<i>Aspicularis tetraptera</i>	filter	0/2	SDL/AB	PCR	0/2
<i>Syphacia muris</i>	filter	0/2	SDL	PCR	0/2
<i>Syphacia obvelata</i>	filter	0/2	SDL	PCR	NT

**From same unit:**

none

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### 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