

**HEALTH MONITORING REPORT (SnKTT2-16 mouse)**
In accordance with FELASA recommendations

Date of issue: 21.12.2016 KO		Unit: Snellmania conventional				
Species: Mouse		Strain: Nrf2/PGC1alpha-ko, Nrf2/Tie2xLDLR-ko; Nrf2xLDLR/ApoB48; ApoE-ko; ANRIL KOxC57BL/6JOlaHsd				
Latest test date: 28.11-2.12.2016		Species and strains present within the unit: Mouse; inbred strains, GM- strains Rat: RccHan:WIST, SD, GM-strains Rabbit: NZW; Swine				
		Latest results	Testing laboratory	Test method	Results 18.04.2016	Results 2015
Viruses						
Ectromelia Virus	serum	NT	SDL	BEAD	0/4	0/12
Epizootic Diarrhoea of Infant Mice	serum	0/7	SDL	BEAD	0/4	0/15
Hantaan Virus	serum	NT	SDL	BEAD	0/4	0/12
K Virus	serum	NT	SDL	BEAD	0/4	0/12
Lactate Dehydrogenase Elevating Virus	serum	NT	SDL	BEAD	0/4	0/12
Lymphocytic Choriomeningitis Virus	serum	NT	SDL	BEAD	0/4	0/12
Minute Virus of Mice	serum	0/7	SDL	BEAD	0/4	0/15
Mouse Adenovirus 1	serum	NT	SDL	BEAD	0/4	0/12
Mouse Adenovirus 2	serum	NT	SDL	BEAD	0/4	0/12
Mouse Cytomegalovirus	serum	NT	SDL	BEAD	0/4	0/12
Mouse Encephalomyelitis Virus	serum	0/7	SDL	BEAD	0/4	0/15
Mouse Hepatitis Virus	serum	0/7	SDL	BEAD	0/4	0/15
Mouse Parvovirus	serum	0/7	SDL	BEAD	0/4	0/12
	MLN	NT	SDL	PCR	NT	NT
	faecal	NT	SDL	PCR	0/4	NT
	pooled faecal	0/6	SDL	PCR	0/4	0/3
NS1	serum	0/7	SDL	BEAD	NT	0/12
Mouse Thymic Virus	serum	NT	SDL	BEAD	0/4	0/12
Pneumonia Virus of Mice	serum	0/7	SDL	BEAD	0/4	0/12
Murine Norovirus	serum	0/7	SDL	BEAD	0/4	0/12
	pooled faecal	0/7	SDL	RT/PCR	0/4	0/3
Polyoma Virus	serum	NT	SDL	BEAD	0/4	0/12
Reovirus Type 3	serum	0/7	SDL	BEAD	0/4	0/12
Sendai Virus	serum	0/7	SDL	BEAD	0/4	0/12
Bacteria, Mycoplasma and Fungi						
<i>Bordetella bronchiseptica</i>	swab	0/7	SDL	CULT/AGG	0/4	0/15
CAR bacillus	serum	NT	SDL	BEAD/IFA	0/4	0/12
<i>Citrobacter rodentium</i>	pooled faecal	0/4	SDL	CULT	0/4	0/15
<i>Clostridium piliforme</i>	serum	0/7	SDL	BEAD	0/4	0/12
<i>Corynebacterium kutscheri</i>	swab	0/7	SDL	CULT	0/4	0/12
<i>Helicobacter spp.</i>	pooled faecal	0/4	SDL	PCR	NT	0/10
	faecal	NT	SDL	PCR	0/4	NT
<i>Klebsiella spp.</i>	pooled faecal	0/4	SDL	CULT	0/4	0/3
<i>Mycoplasma pulmonis</i>	serum	0/7	SDL	BEAD	0/4	0/12
<i>Pasteurellaceae</i>	swab	0/7	SDL	CULT	0/4	0/15
<i>Pasteurella pneumotropica</i>	pooled faecal	0/4	SDL	PCR	0/4	0/3
<i>Pseudomonas aeruginosa</i>	swab/pooled	0/7	SDL	CULT	0/4	0/15
<i>Salmonella spp.</i>	pooled faecal	0/4	SDL	CULT	0/4	0/15
<i>Streptobacillus moniliformis</i>	pooled faecal	0/4	SDL	CULT	0/4	0/15
β -haemolytic <i>Streptococci</i>	swab/pooled	0/7	SDL	CULT	0/4	0/15
<i>Staphylococcus aureus</i>	swab/pooled	0/7	SDL	CULT	0/4	0/15
<i>Streptococcus pneumoniae</i>	swab	0/7	SDL	CULT	0/4	0/15
<i>Yersinia spp.</i>	pooled faecal	0/4	SDL	CULT	0/4	0/15
Parasites						
Arthropods	fur	NT	SDL	MIC	0/4	0/12
Encephalitozoon cuniculi	faecal pellets	NT	SDL	BEAD	0/4	0/12
Intestinal protozoa	faecal pellets	NT	SDL	MICR	0/4	0/12
<i>Entamoeba spp</i>	pooled faecal	2/4	SDL	PCR	NT	NT
<i>Entamoeba muris</i>	faecal pellets	NT	SDL	MICR	0/4	0/3
<i>Giardia, Spiroplasma</i>	faecal pellets	0/4	SDL	PCR	0/4	0/12
Faecal ova	faecal pellets	0/4	SDL	FLOT/MICR	0/4	0/12
Intestinal helminths	pooled faecal	0/4	SDL	MICR	0/4	0/12
<i>Aspicularis tetraptera</i>	pooled faecal	0/4	SDL	PCR	0/4	0/3
<i>Syphacia muris</i>	pooled faecal	NT	SDL	PCR	NT	0/3
<i>Syphacia obvelata</i>	pooled faecal	0/4	SDL	PCR	0/4	NT

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Necropsy						
External Lesions/Abnormalities	animal	NT	LAC	visual	0/4	0/12
Internal Lesions/Abnormalities	animal	NT	LAC	STEREO	0/4	0/12

Entamoeba spp positive mice rooms 2216 and 2255 by pooled faecal samples.

From other units of LAC:

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

Historical results:

18.04.16 – no positive findings

23.11.2015 – no positive findings, PCR from pooled samples

05.05.2015 – no positive findings; pooled samples taken from 15 mice and swabs from 3 mice.

Canthia unit was under major cleaning and decontamination with hydrogen peroxide in Dec 2014. Rats caring *Helicobacter spp* were treated (Nov 2014...February 2015) and additionally tested in March and April 2015.

17.12.14

Canthia 1 — From room 1225, 1226, 1228 only pooled faecal pellets were taken and tested for *Pasteurella pneumotropica*, *Helicobacter spp*, Norovirus, *Entamoeba spp* and pinworms for PCR. *Entamoeba spp* positive mice rooms 1225, 1226.

Helicobacter spp pooled faecal sample in rats room 1229

Snellmania barrier — *Entamoeba spp* pooled faecal sample in mice (rooms 2260, 2261, 2262, 2263)

Snellmania conventional — *Entamoeba spp* pooled faecal sample in mice (rooms 2216, 2244, 2245, 2257, 2255) and in rats (rooms 2217, 2242)

30.07.14

Canthia 1 — *Helicobacter rodentium* pooled faecal sample rats room 1229.

Canthia 2 — *H. hepaticus* (rooms 1185 & 1186/1) and *H. rodentium* (room 1184); Murine norovirus mice (room 1184 - serology and pooled faecal, 1186/1 - serology)

Former outbreaks:

After positive findings of Mouse Parvovirus (MPV) from mesenteric lymph nodes in mice in May 2011 barrier was renovated and biodecontaminated. New animals arrived 19. July 2012.

10.5.2011

Mouse parvovirus found mesenteric lymph nodes and faecal samples in Bioteknia 2, Canthia 1, Snellmania Barrier and – Conventional. Barrier was renovated and biodecontaminated. From 2012 all samples neg.

A. tetraptera in Canthia 1 found in 2011. Rodents were medicated with fenbendazole January-March 2012 due. 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; Evira: Finnish Food Safety Authority, Kuopio; 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