



UNIVERSITY OF  
EASTERN FINLAND

FACULTY OF HEALTH SCIENCES  
LAB ANIMAL CENTRE

## HEALTH MONITORING REPORT (SnBTT2-15 mouse)

In accordance with FELASA recommendations

Date of issue 15.12.2015 KO		Unit: Snellmania barrier (started July 2012)					
Species: Mouse		Strain: Cri:NMRI; BALB/cOlaHsd ; JAXC57BL/6J; C57BL/6JOlaHsd; IGFII/ApoB; MCK-PGC1a; AkitaxLDLR-/-; VEGF-B Aase; LDLR KO; LDLR/ApoE-ko; PGC1a4/Myh6-Cre; Myh6-cre; Nrf2-ko x C57BL/6JOlaHsd; Rag1 KO; K14-Flt4					
Latest test date: 23.11.2015		Species and strains present within the unit: Mouse; inbred strains, GM- strains					
		Latest results	Testing laboratory	Test method	Results 14.04.15	Results 2014	
<b>Viruses</b>							
Ectromelia Virus	serum	NT	SDL	BEAD	0/10	0/10	
Epizootic Diarrhoea of Infant Mice	pooled faecal	0/3	SDL	PCR	0/10	0/21	
Hantaan Virus	serum	NT	SDL	BEAD	0/10	0/10	
K Virus	serum	NT	SDL	BEAD	0/10	0/10	
Lactate Dehydrogenase Elevating Virus	serum	NT	SDL	BEAD	0/10	0/10	
Lymphocytic Choriomeningitis Virus	serum	NT	SDL	BEAD	0/10	0/10	
Minute Virus of Mice	pooled faecal	0/3	SDL	PCR	0/10	0/21	
Mouse Adenovirus 1	serum	NT	SDL	BEAD	0/10	0/10	
Mouse Adenovirus 2	serum	NT	SDL	BEAD	0/10	0/10	
Mouse Cytomegalovirus	serum	NT	SDL	BEAD	0/10	0/10	
Mouse Encephalomyelitis Virus (GDVII TMEV)	pooled faecal	0/3	SDL	PCR	0/10	0/21	
Mouse Hepatitis Virus	pooled faecal	0/3	SDL	PCR	0/10	0/21	
Mouse Parvovirus	serum	NT	SDL	BEAD	0/10	0/21	
	MLN	NT	SDL	PCR	NT	NT	
	faecal	NT	SDL	PCR	NT	NT	
	pooled faecal	0/3	SDL	PCR	0/6	0/11	
NS1	serum	NT	SDL	BEAD	0/10	0/21	
Mouse Thymic Virus	serum	NT	SDL	BEAD	0/10	NT	
Murine Norovirus	serum	NT	SDL	BEAD	0/10	0/21	
	pooled faecal	0/3	SDL	RT/PCR	0/10	NT	
Pneumonia Virus of Mice	serum	NT	SDL	BEAD	0/10	0/21	
Polyoma Virus	serum	NT	SDL	BEAD	0/10	0/10	
Prospect Hill Virus	serum	NT	SDL	BEAD	NT	0/10	
Reovirus Type 3	serum	NT	SDL	BEAD	0/10	0/21	
Sendai Virus	serum	NT	SDL	BEAD	0/10	0/21	
<b>Bacteria, Mycoplasma and Fungi</b>							
<i>Bordetella bronchiseptica</i>	swab/pooled	0/3	SDL	CULT/AGG	0/10	0/21	
CAR bacillus	serum	NT	SDL	BEAD/IFA	0/10	0/10	
<i>Citrobacter rodentium</i>	swab/pooled	0/3	SDL	CULT	0/10	0/16	
<i>Clostridium piliforme</i>	serum	NT	SDL	BEAD	0/10	0/21	
<i>Corynebacterium kutscheri</i>	swab/pooled	NT	SDL	CULT	0/10	0/21	
<i>Helicobacter spp.</i>	pooled faecal	0/3	SDL	PCR	0/6	0/11	
	faecal	NT	SDL	PCR	NT	NT	
<i>Klebsiella spp.</i>	swab/pooled	0/3	SDL	CULT	0/10	0/16	
<i>Mycoplasma spp</i>	serum	NT	SDL	BEAD	0/10	0/21	
<i>Pasteurellaceae</i>	swab/pooled	0/3	SDL	CULT	0/10	0/21	
<i>Pasteurella pneumotropica</i>	pooled faecal	0/3	SDL	PCR	0/6	0/11	
<i>Pseudomonas aeruginosa</i>	swab/pooled	0/3	SDL	CULT	0/10	0/21	
<i>Salmonella spp.</i>	swab/pooled	0/3	SDL	CULT	0/10	0/21	
<i>Streptobacillus moniliformis</i>	swab/pooled	0/3	SDL	CULT	0/6	0/16	
$\beta$ -haemolytic <i>Streptococci</i>	swab/pooled	0/3	SDL	CULT	0/10	0/21	
<i>Staphylococcus aureus</i>	swab/pooled	0/3	SDL	CULT	0/10	0/21	
<i>Staphylococcus aureus</i>	pooled faecal	NT	SDL	PCR	0/6	NT	
<i>Streptococcus pneumoniae</i>	swab/pooled	0/3	SDL	CULT	0/10	0/21	
<i>Yersinia spp.</i>	swab/pooled	0/3	SDL	CULT	0/10	0/11	
<b>Parasites</b>							
Arthropods	fur	NT	SDL	visual	0/10	0/21	
Encephalitozoon cuniculi	faecal pellets	NT	SDL	BEAD	NT	0/10	
Intestinal protozoa	faecal pellets	NT	SDL	MICR	0/10	0/10	
	<i>Entamoeba spp</i>	pooled faecal	NT	SDL	PCR	NT	4/6
Faecal ova	faecal pellets	NT	SDL	FLOT/MICR	0/10	0/20	
Intestinal helminths	pooled faecal	NT	SDL	MICR	0/10	0/20	
	<i>Aspicularis tetraptera</i>	pooled faecal	0/3	SDL	PCR	0/6	0/11
	<i>Syphacia muris</i>	pooled faecal	0/3	SDL	PCR	NT	0/11
	<i>Syphacia obvelata</i>	pooled faecal	NT	SDL	PCR	0/6	0/11



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Necropsy						
External Lesions/Abnormalities	animal	NT	SDL	visual	0/10	0/10
Internal Lesions/Abnormalities	animal	NT	SDL	MICR	0/10	0/10

### Historical results:

**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) form 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. tetraoptera 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