

**HEALTH MONITORING REPORT** (CaSnBTT2-18 mouse)  
In accordance with FELASA recommendations

Date of issue: 27.01.19 KO	<b>Unit:</b> Snellmania barrier (started July 2012); moved temporarily to Ca July, 2017					
Species: Mouse	<b>Strain:</b> JAXC57BL/6J; C57BL/6JOlaHsd; Myh6-cre; Myh6-Cre Ruotsalainen; K14-Flt4xLDLR-/-/ApoB48; IGFII/ApoB; VEGF-D-KOxLDLR/ApoB; ApoE-ko; LDLR/ApoB100; Cx3CR1-GFP					
Latest test date: 10.12.2018	<b>Species and strains present within the unit:</b> Mouse; inbred strains, GM- strains					
		<b>Latest results</b>	<b>Testing laboratory</b>	<b>Test method</b>	<b>Results 4.06.18</b>	<b>Results@ 2017</b>
<b>Viruses</b>						
Ectromelia Virus	serum	NT	SDL	BEAD	0/14	0/6
Epizootic Diarrhoea of Infant Mice	serum	0/12	SDL	BEAD	0/14	0/10
Hantaan Virus	serum	NT	SDL	BEAD	0/14	0/6
K Virus	serum	NT	SDL	BEAD	0/14	0/6
Lactate Dehydrogenase Elevating Virus	serum	NT	SDL	BEAD	0/14	0/6
Lymphocytic Choriomeningitis Virus	serum	NT	SDL	BEAD	0/14	0/6
Minute Virus of Mice	serum	0/12	SDL	BEAD	0/14	0/10
Mouse Adenovirus 1	serum	NT	SDL	BEAD	0/14	0/6
Mouse Adenovirus 2	serum	NT	SDL	BEAD	0/14	0/6
Mouse Cytomegalovirus	serum	NT	SDL	BEAD	0/14	0/6
Mouse Encephalomyelitis Virus (GDVII TMEV)	serum	0/12	SDL	BEAD	0/14	0/10
Mouse Hepatitis Virus	serum	0/12	SDL	BEAD	0/14	0/10
Mouse Parvovirus	serum	0/12	SDL	BEAD	0/14	0/10
	faecal	NT	SDL	PCR	NT	0/6
	pooled faecal	0/5	SDL	PCR	NT	0/3
NS1	serum	0/12	SDL	BEAD	NT	0/10
Mouse Thymic Virus	serum	NT	SDL	BEAD	0/14	0/6
Murine Norovirus	serum	0/12	SDL	BEAD	0/14	0/10
	pooled faecal	NT	SDL	RT/PCR	0/14	0/6
Pneumonia Virus of Mice	serum	0/12	SDL	BEAD	0/14	0/10
Polyoma Virus	serum	NT	SDL	BEAD	0/14	0/6
Reovirus Type 3	serum	0/12	SDL	BEAD	0/14	0/10
Sendai Virus	serum	0/12	SDL	BEAD	0/14	0/10
<b>Bacteria, Mycoplasma and Fungi</b>						
<i>Bordetella bronchiseptica</i>	swab	0/12	SDL	CULT/AGG	0/16	0/10
CAR bacillus	serum	NT	SDL	BEAD/IFA	0/12	0/6
<i>Citrobacter rodentium</i>	faecal	0/12	SDL	CULT	0/16	0/3
<i>Clostridium piliforme</i>	serum	0/12	SDL	BEAD	0/12	0/10
<i>Corynebacterium kutscheri</i>	swab	0/12	SDL	CULT	0/16	0/10
<i>Helicobacter spp.</i>	pooled faecal	0/5	SDL	PCR	NT	0/3
	faecal	NT	SDL	PCR	0/16	0/6
<i>Klebsiella spp.</i>	faecal	NT	SDL	CULT	0/16	0/3
<i>Mycoplasma spp</i>	serum	0/12	SDL	BEAD	0/12	0/10
<i>Pasteurellaceae</i>	swab	0/12	SDL	CULT	0/16	0/10
<i>Pasteurella pneumotropica</i> (Heyl; Jawetz)	swab	0/12	SDL	PCR	0/16	0/10
<i>Pasteurella pneumotropica</i> (Heyl; Jawetz)	pooled faecal	0/5	SDL	PCR	0/16	0/3*
<i>Pasteurella pneumotropica</i> (Heyl; Jawetz)	oral	0/12	SDL	PCR	NT	1/4
<i>Pseudomonas aeruginosa</i>	swab/pooled	0/12	SDL	CULT	0/16	0/10
<i>Pneumocystis murina</i>	serum	0/12	SDL	BEAD	0/12	0/6
<i>Salmonella spp.</i>	faecal	0/12	SDL	CULT	0/16	0/3
<i>Streptobacillus moniliformis</i>	faecal	0/12	SDL	CULT	0/16	0/3
$\beta$ -haemolytic <i>Streptococci</i>	swab	0/12	SDL	CULT	0/16	0/10
<i>Staphylococcus aureus</i>	swab	0/12	SDL	CULT	0/16	0/10
<i>Staphylococcus aureus</i>	swab	0/12	SDL	PCR	NT	0/3
<i>Streptococcus pneumoniae</i>	swab	0/12	SDL	CULT	0/16	0/10
<i>Yersinia spp.</i>	faecal	0/12	SDL	CULT	0/16	0/3
<b>Parasites</b>						
Arthropods	fur	NT	SDL	MIC	0/12	0/6
Encephalitozoon cuniculi	serum	NT	SDL	BEAD	0/12	0/6
Intestinal protozoa	faecal pellets	NT	SDL	MICR	0/12	0/6
<i>Entamoeba spp</i>	faecal	NT	SDL	PCR	NT	0/9
<i>Entamoeba muris</i>	pooled pellets	0/5*	SDL	PCR	0/12	0/6
<i>Giardia, Spironucleus</i>	faecal pellets	0/5	SDL	MICR	0/12	0/3
<i>Trichomonas, Tetratrichomonas, Enteromonas, Chilomastix sp</i>	faecal pellets	NT	SDL	MICR	0/12	0/3

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Faecal ova	faecal pellets	NT	SDL/AB	FLOT/MICR	0/3	0/9
Intestinal helminths	faecal pellets	NT	SDL/AB	MICR	0/3	0/9
	<i>Aspiculuris tetraptera</i>	0/5	SDL/AB	PCR	0/3	0/9
	<i>Syphacia obvelata</i>	0/5	SDL/AB	PCR	0/3	0/9
<b>Necropsy</b>						
External Lesions/Abnormalities	animal	NT	SDL	visual	NT	0/3
Internal Lesions/Abnormalities	animal	NT	SDL	MICR	NT	0/3

**Barrier has been intensively tested for *P. pneumotropica* due sporadic pos PCR results. No cultivation or later PCR results did not confirm the pos results. Considered as negative.**

**\*Entamoeba pos in PCR, did not confirm in double testing**

**Same unit:**

No other species

**From other units of LAC:**

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.

**Historical results:****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.

**6.11.17**

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 — *Entamoeba spp* pooled faecal sample in mice (rooms 1231). *Pasteurella pneumotropica* oral sample by PCR from mice room 1226 (Heyl) oral and pooled from room 1224/2 (Jawetz) and pooled from room 1225 (Jawetz). Rats positive by oral and pooled rooms 1228 and 1233 (Jawetz), cultures neg.

Bioteknia 2 — *Entamoeba spp* pooled faecal sample in mice (room 0249); *Pasteurella pneumotropica* oral sample by PCR rats room 0420 (Jawetz).

**12.05.17**

Barrier — *Pasteurella pneumotropica* (Jawetz) positive mouse from room 2251 by pooled faecal samples by PCR, swabs were neg, **considered as negative** as further test from faecal pellets and throat by PCR were neg (PCR, Idexx, 5 animals including former pos. cagemade)

Canthia — *Pasteurella pneumotropica* (Jawetz) positive mice rooms 1224/2 and 1230 and rats from rooms 1226 and 1228 by PCR by faecal samples, swabs were neg – **count as neg**

Snellmania conventional — *Pasteurella pneumotropica* (Jawetz) positive mice from room 2242 by faecal samples by PCR, swabs were neg – **count as neg**. *Entamoeba spp* pooled faecal sample in mice (room 2217).

*Pasteurellaceae* were cultivated from rabbit in room 2245. *Pasteurella pneumotropica* (Jawetz & Heyl); *Pasteurella multocida* and *Bordetella bronchiseptica* and *Pasteurellaceae spp* **were negative** from faecal PCR by SDL and from additional swabs taken for cultivation on 8. June from (the same animals tested by Movet).

**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.



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2. Abbreviations of laboratories: SDL: Surrey Diagnostics Limited, UK; 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