

## HEALTH MONITORING REPORT (Bt2TT1-19 mouse)

In accordance with FELASA recommendations

<b>Date of issue:</b> 12.07.19KO		<b>Unit:</b> Biotecknia 2, conventional; in the use from 12.04.2016; open cages (animals transferred from closed Canthia)				
<b>Species:</b> Mouse		<b>Strain:</b> Ugt1; Pkm2-Myh6-Cre; Nrf2-Myh6-Cre; JAXC57BL/6J; SUR-1 x LDLR KO; ANRIL KOx57BL/6J.OlaHsd; aSMA-EGFPL10alpha/LDLR/ApoB48-ko				
<b>Latest test date:</b> 17.06.19		<b>Species and strains present within the unit:</b> Mouse; inbred strains, gene modified strains;				
	<b>Live animals</b>	<b>Latest results</b>	<b>Testing laboratory</b>	<b>Test method</b>	<b>Results 10.12.18</b>	<b>Result 2017-2018</b>
<b>Viruses</b>						
Ectromelia Virus	serum	0/7	SDL	BEAD	NT	0/2
Epizootic Diarrhoea of Infant Mice	serum	0/7	SDL	BEAD	NT	0/4
Hantaan Virus	serum	0/7	SDL	BEAD	NT	0/2
K Virus	serum	0/7	SDL	BEAD	NT	0/2
Lactate Dehydrogenase Elevating Virus	serum	0/7	SDL	BEAD	NT	0/2
Lymphocytic Choriomeningitis Virus	serum	0/7	SDL	BEAD	NT	0/2
Minute Virus of Mice	serum	0/7	SDL	BEAD	0/5	0/4
Mouse Adenovirus 1	serum	0/7	SDL	BEAD	NT	0/2
Mouse Adenovirus 2	serum	0/7	SDL	BEAD	NT	0/2
Mouse Cytomegalovirus	serum	0/7	SDL	BEAD	NT	0/2
Mouse Encephalomyelitis Virus	serum	0/7	SDL	BEAD	0/5	0/4
Mouse Hepatitis Virus	serum	0/7	SDL	BEAD	0/5	0/4
Mouse Parvovirus	serum	0/7	SDL	BEAD	0/5	0/4
NS1	serum	0/7	SDL	BEAD	0/5	0/2
Mouse Thymic Virus	serum	0/7	SDL	BEAD	NT	0/2
Murine Norovirus	serum	0/7	SDL	BEAD	0/5	0/4
Pneumonia Virus of Mice	serum	0/7	SDL	BEAD	0/5	0/4
Polyoma Virus	serum	0/7	SDL	BEAD	NT	0/2
Reovirus Type 3	serum	0/7	SDL	BEAD	0/5	0/4
Sendai Virus	serum	0/7	SDL	BEAD	0/5	0/4
<b>Bacteria, Mycoplasma and Fungi</b>						
<i>Bordetella bronchiseptica</i>	swab	0/7	SDL	CULT/AGG	0/5	0/4
CAR bacillus	serum	0/7	SDL	BEAD/IFA	0/5	0/2
<i>Citrobacter rodentium</i>	pooled faecal	0/7	SDL	CULT	0/3	0/4
<i>Clostridium piliforme</i>	serum	0/7	SDL	BEAD	0/5	0/4
<i>Corynebacterium kutscheri</i>	swab	0/7	SDL	CULT	0/5	0/4
<i>Helicobacter spp.*</i>	pooled faecal	NT	SDL	PCR	0/3*	0/2
	faecal	0/7	SDL	PCR	NT	0/2
<i>Klebsiella spp.</i>	pooled faecal	0/7	SDL	CULT	0/3	0/4
<i>Mycoplasma spp</i>	serum	0/7	SDL	BEAD	0/5	0/4
<i>Pasteurellaceae</i>	swab	0/7	SDL	CULT	0/5	0/4
<i>Pasteurella pneumotropica</i> (Heyl; Jawetz)	swab	0/7	SDL	CULT	0/5	0/4
<b><i>Pasteurella pneumotropica</i></b> (Heyl; Jawetz)	pooled faecal	0/7	SDL	PCR	<b>2/5</b>	0/4
<b><i>Pasteurella pneumotropica</i></b> (Heyl; Jawetz)*	oral	0/7	SDL	PCR	<b>1/3</b>	0/4
<i>Pseudomonas aeruginosa</i>	swab/pooled	0/7	SDL	CULT	0/5	0/4
<i>Pneumocystis murina</i>	serum	0/7	SDL	BEAD	0/5	0/2
<i>Salmonella spp.</i>	faecal	0/7	SDL	CULT	0/5	0/4
<i>Streptobacillus moniliformis</i>	faecal	0/7	SDL	CULT	0/5	0/4
$\beta$ -haemolytic <i>Streptococci</i>	pooled faecal	0/7	SDL	CULT	0/3	0/4
<i>Staphylococcus aureus</i>	swab/pooled	0/7	SDL	CULT	0/5	0/4
<i>Streptococcus pneumonia</i>	swab	0/7	SDL	CULT	0/5	0/4
<i>Yersinia spp.</i>	swab	0/7	SDL	CULT	NT	0/4
<b>Parasites</b>						
Arthropods	fur	0/7	SDL	MICR	0/5	0/2
Encephalitozoon cuniculi	serum	0/7	SDL	BEAD	NT	0/2
Intestinal protozoa	faecal pellets	0/7	SDL	FLOT/MICR	NT	0/2
<b><i>Entamoeba spp</i></b>	<b>pooled faecal</b>	0/7	SDL	MICR	<b>1/5</b>	<b>1/4</b>
<i>Entamoeba muris</i>	faecal pellets	0/7	SDL	MICR	NT	0/2
<i>Giardia, Spironucleus</i>	pooled pellets	0/7	SDL	MICR	0/5	0/4
<i>Trichomonas, Tetratrichomonas, Enteromonas, Chilomastix sp</i>	faecal pellets	0/7	SDL	MIC	NT	0/4
Faecal ova	faecal pellets	0/7	SDL/AB	FLOT/MICR	NT	0/4
Intestinal helminths	faecal pellets	0/7	SDL/AB	MICR	NT	0/4
<i>Aspiculuris tetraptera</i>	pooled pellets	0/7	SDL/AB	FLOT/MICR	0/5	0/3
<i>Syphacia obvelata</i>	pooled pellets	0/7	SDL/AB	FLOT/MICR	0/5	0/3

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Necropsy						
External Lesions/Abnormalities	animal	0/7	SDL	STEREO	NT	0/2
Internal Lesions/Abnormalities	animal	0/7	SDL	STEREO	NT	0/2

**From same unit:**

None

**From other units of LAC:**

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

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