

HEALTH MONITORING REPORT (Bt2TT2-17 mouse)

In accordance with FELASA recommendations

Date of issue: 8.12.2017 KO		Unit: Bioteknia 2, conventional; in the use from 12.04.2016				
Species: Mouse		Strain: IGFII/ApoB; JAXC57BL/6J				
Latest test date: 6.11.17		Species and strains present within the unit: Mouse; inbred strains, gene modified strains; Rat:RccHan:WIST; SD				
		Latest results	Testing laboratory	Test method	Results 28.11- 2.12.2016	Result 2016
Viruses						
Ectromelia Virus	serum	NT	SDL	BEAD	NT	NT
Epizootic Diarrhoea of Infant Mice	serum	0/2	SDL	PCR	0/1	NT
Hantaan Virus	serum	NT	SDL	BEAD	NT	NT
K Virus	serum	NT	SDL	BEAD	NT	NT
Lactate Dehydrogenase Elevating Virus	serum	NT	SDL	BEAD	NT	NT
Lymphocytic Choriomeningitis Virus	serum	NT	SDL	BEAD	NT	NT
Minute Virus of Mice	serum	0/2	SDL	PCR	0/1	NT
Mouse Adenovirus 1	serum	NT	SDL	BEAD	NT	NT
Mouse Adenovirus 2	serum	NT	SDL	BEAD	NT	NT
Mouse Cytomegalovirus	serum	NT	SDL	BEAD	NT	NT
Mouse Encephalomyelitis Virus	serum	0/2	SDL	PCR	0/1	NT
Mouse Hepatitis Virus	serum	0/2	SDL	PCR	0/1	NT
Mouse Parvovirus	serum	0/2	SDL	BEAD	0/1	NT
	faecal	NT	SDL	PCR	NT	NT
	pooled faecal	NT	SDL	PCR	NT	NT
NS1	serum	0/2	SDL	BEAD	0/1	NT
Mouse Thymic Virus	serum	NT	SDL	BEAD	NT	NT
Murine Norovirus	serum	0/2	SDL	BEAD	0/1	NT
	serum	NT	SDL	RT/PCR	NT	NT
Pneumonia Virus of Mice	serum	0/2	SDL	BEAD	0/1	NT
Polyoma Virus	serum	NT	SDL	BEAD	NT	NT
Reovirus Type 3	serum	0/2	SDL	BEAD	0/1	NT
Sendai Virus	serum	0/2	SDL	BEAD	0/1	NT
Bacteria, Mycoplasma and Fungi						
<i>Bordetella bronchiseptica</i>	swab	0/2	SDL	CULT/AGG	0/1	NT
CAR bacillus	serum	NT	SDL	BEAD/IFA	NT	NT
<i>Citrobacter rodentium</i>	pooled faecal	0/2	SDL	CULT	0/1	NT
<i>Clostridium piliforme</i>	serum	0/2	SDL	BEAD	0/1	NT
<i>Corynebacterium kutscheri</i>	swab	0/2	SDL	CULT	0/1	NT
<i>Helicobacter spp.</i>	pooled faecal	0/2	SDL	PCR	0/1	NT
	faecal	NT	SDL	PCR	NT	NT
<i>Klebsiella spp.</i>	pooled faecal	0/2	SDL	CULT	0/1	NT
<i>Mycoplasma spp</i>	serum	0/2	SDL	BEAD	0/1	NT
<i>Pasteurellaceae</i>	swab	0/2	SDL	CULT	0/1	NT
<i>Pasteurella pneumotropica</i> (Heyl; Jawetz)	swab	0/2	SDL	CULT	0/1	NT
<i>Pasteurella pneumotropica</i> (Heyl; Jawetz)	pooled faecal	0/2	SDL	PCR	0/1	NT
<i>Pasteurella pneumotropica</i> (Heyl; Jawetz)*	oral	0/2	SDL	PCR	NT	NT
<i>Pseudomonas aeruginosa</i>	swab/pooled	0/2	SDL	CULT	0/1	NT
<i>Salmonella spp.</i>	pooled faecal	0/2	SDL	CULT	0/1	NT
<i>Streptobacillus moniliformis</i>	pooled faecal	0/2	SDL	CULT	0/1	NT
β -haemolytic <i>Streptococci</i>	swab/pooled	0/2	SDL	CULT	0/1	NT
<i>Staphylococcus aureus</i>	swab/pooled	0/2	SDL	CULT	0/1	NT
<i>Streptococcus pneumonia</i>	swab	0/2	SDL	CULT	0/1	NT
<i>Yersinia spp.</i>	pooled faecal	0/2	SDL	CULT	0/1	NT
Parasites						
Arthropods	fur	NT	SDL	visual	NT	NT
Encephalitozoon cuniculi	serum	NT	SDL	BEAD	NT	NT
Intestinal protozoa	faecal pellets	NT	SDL	FLOT/MICR	NT	NT
<i>Entamoeba spp.</i> ^{***}	pooled faecal	1/2	SDL	PCR	0/1	NT
<i>Entamoeba muris</i>	faecal pellets	NT	SDL	MICR	NT	NT
<i>Giardia, Spironucleus</i>	faecal pellets	0/2	SDL	PCR	0/1	NT
Faecal ova	faecal pellets	0/2	SDL	FLOT/MICR	0/1	NT
Intestinal helminths	faecal pellets	0/2	SDL	MICR	0/1	NT
<i>Aspicularis tetraptera</i>	faecal pellets	0/2	SDL	PCR	0/1	NT
<i>Syphacia muris</i>	faecal pellets	NT	SDL	PCR	NT	NT

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<i>Syphacia obvelata</i>	faecal pellets	0/2	SDL	PCR	0/1	NT
Necropsy						
External Lesions/Abnormalities	animal	NT	SDL	STEREO	NT	NT
Internal Lesions/Abnormalities	animal	NT	SDL	STEREO	NT	NT

“*Entamoeba spp* pooled faecal sample in mice (room 0249) by PCR

From same unit:

Pasteurella pneumotropica oral sample by PCR rats room 0420 (Jawetz). Culture and pooled sample neg.

From other units of LAC:

Barrier — *Pasteurella pneumotropica* (Heyl) pos from the room 1258/2 by oral sample by PCR, culture and pooled sample involving the same mouse was neg.

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.

Historical results:

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. cagemate)

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)

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.

Former outbreaks:

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.

In Canthia 1 — *Helicobacter rodentium* was found rats and in Canthia 2 mice were positive *H. hepaticus* and *H. rodentium*); Murine norovirus. Mice were all killed before decontamination.

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. 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