



EMMA health monitoring procedures

Brief description of housing system, health monitoring programme and health status of the EMMA SPF live colonies

Type of facility

Animals distributed by EMMA are bred in SPF (Specific Pathogen Free) barriered facilities in which all materials are sterilized before entry. Staff entering the barriered areas must shower and change into clean unit clothing. Where appropriate, staff working within the units is also required to wear, gloves, face masks, mob caps and over shoes.

Housing system

Animals are maintained in either flexible film isolators or IVCs (Individually Ventilated Cages) or in conventional cages in barriered areas under positive pressure and are given autoclaved bedding, autoclaved or irradiated food and filtered or chlorinated water. Animals reared in IVCs are cage changed under laminar flow hoods.

Sentinel programme

The health status of each animal room is monitored on a regular basis e.g. 4 times per year when mice are reared in IVCs or monthly when mice are bred in conventional cages in barriered areas. These screening programmes involve exposing sentinel animals to dirty bedding collected from other IVCs within the mouse room. Some colonies e.g. those reared in isolators are sampled directly.

Health report

Before receiving any mice from EMMA you will be sent a recent (< 3 months old) health report prepared in accordance with the FELASA (Federation of European Laboratory Animal Science) recommendations. This health report will give details of the agents tested, the number of animals tested and the analytical methods used.

The following pages provide a sample health report from the EMMA node that distributes the strain you are interested in. Note that this is a **sample** health report and **not a current report**. Current reports will be provided upon request. Additional specific health checks (beyond tests recommended by FELASA) are possible if required by customers for importation but will be charged to the customer. If you require any further information please contact the archiving/distribution centre handling your request.

Health monitoring report In accordance with FELASA recommendations

Date of issue: 9th July 2020

Location: Mouse barrier, Oulu Laboratory Animal Centre, University of Oulu

Species sampled: Mouse

Unit type: Full barrier

Housing type: IVCs and open cages

Species within the unit: Mouse

Sampling: Outbred CD1 sentinel mice, one from every animal room

		30 Jun	20 Apr	11 Nov	3 Sept	20 May	Dec 2014 -	Test	Test method
		2020	2020	2019	2019	2019	Dec 2018	laboratory	
Viruses									
Minute virus of mice (MVM)		0/10	0/10	0/10	0/10	0 / 10	0 / 137	SDL	Bead
Mouse parvovirus (MPV)		0/10	0/10	0/10	0/10	0 / 10	0 / 137	SDL	Bead
Mouse parvovirus (MLNs)		NT	0/10	NT	NT	0 / 10	0 / 49	SDL	PCR
Mouse parvovirus (faeces, pooled room samples)		0/8	0/8	0/8	0/8	0 / 8	0 / 66	SDL	PCR
Mouse hepatitis virus (MHV)		0/10	0/10	0/10	0/10	0 / 10	0 / 137	SDL	Bead
Pneumonia virus of mice (PVM)		0/10	0/10	0/10	0/10	0 / 10	0 / 137	SDL	Bead
Reovirus type 3		0/10	0/10	0/10	0/10	0 / 10	0 / 137	SDL	Bead
Sendai virus		0/10	0/10	0/10	0/10	0 / 10	0 / 137	SDL	Bead
Mouse rotavirus (EDIM)		0/10	0/10	0/10	0/10	0 / 10	0 / 137	SDL	Bead
Theiler's murine encephalomyelitis virus (TMEV)		0/10	0/10	0/10	0/10	0 / 10	0 / 137	SDL	Bead
Mouse norovirus (MNV)		0/10	0/10	0/10	0/10	0 / 10	0 / 137	SDL	Bead
Mouse norovirus (faeces, pooled room samples)		0/8	0/8	0/8	0/8	0 / 8	0 / 92	SDL	RT-PCR
Ectromelia virus		NT	0/10	NT	NT	0 / 10	0 / 38	SDL	Bead
Lymphocytic choriomeningitis virus (LCMV)		NT	0/10	NT	NT	0 / 10	0 / 38	SDL	Bead
Mouse adenovirus (Mad FL)		NT	0/10	NT	NT	0 / 10	0 / 38	SDL	Bead
Mouse adenovirus (Mad K87)		NT	0/10	NT	NT	0 / 10	0 / 38	SDL	Bead
Mouse cytomegalovirus (MCMV)		NT	0/10	NT	NT	0 / 10	0 / 38	SDL	Bead
Hantaan virus		NT	0/10	NT	NT	0 / 10	0 / 38	SDL	Bead
Polyoma virus		NT.	0/10	NT	NT	0 / 10	0 / 38	SDL	Bead
K-virus		NT	0/10	NT	NT	0 / 10	0 / 38	SDL	Bead
Lactate dehydrogenase elavating virus (LDEV)		NT	0/10	NT	NT	0 / 10	0 / 38	SDL	Bead
Mouse thymic virus (MTV)		NT	0/10	NT	NT	0 / 10	0 / 38	SDL	Bead
Bacteria, mycoplasma and fungi									
Citrobacter rodentium		0/10	0/10	0/10	0/10	0 / 10	0 / 137	SDL	Cult
Clostridium piliforme		0/10	0/10	0/10	0/10	0 / 10	0 / 137	SDL	Bead
Corynebacterium kutscheri		0/10	0/10	0/10	0/10	0 / 10	0 / 137	SDL	Cult
Helicobacter spp. (faeces, pooled room samples)		0/8	0/8	0/8	0/8	0 / 8	0 / 92	SDL	PCR
Mycoplasma pulmonis		0/10	0/10	0/10	0/10	0 / 10	0 / 137	SDL	Bead
Pasteurellaceae		0/10	0/10	0/10	0/10	0 / 10	0 / 137	SDL	Cult
Pasteurella pneumotropica		0/10	0/10	0/10	0/10	0 / 10	0 / 137	SDL	PCR
Pseudomonas aeruginosa		0/10	0/10	0/10	0/10	0 / 10	1 / 137 1)	SDL	Cult
Salmonella spp.		0/10	0/10	0/10	0/10	0 / 10	0 / 137	SDL	Cult
Staphylococcus aureus		0/10	0/10	0/10	0/10	0 / 10	6 / 137 2)	SDL	Cult
Streptococci, β-haemolytic		0/10	0/10	0/10	0/10	0 / 10	0 / 137	SDL	Cult
Streptococcus pneumoniae		0/10	0/10	0/10	0/10	0 / 10	0 / 137	SDL	Cult
Streptobacillus moniliformis		0/10	0/10	0/10	0/10	0 / 10	0 / 137	SDL	Cult
Parasites									
Ectoparasites		0/10	0/10	0 / 10	0 / 10	0 / 10	0 / 137	OULAC	Micr
Endoparasites Duodenum		0/10	0/10	0 / 10	0 / 10	0 / 10	0 / 127	OULAC/FFA	Micr
Caecum		0/10	0/10	0 / 10	0 / 10	0 / 10	0 / 127	OULAC/FFA	Micr
Faecal helm	inth eggs	0/10	0/10	0 / 10	0 / 10	0 / 10	0 / 127	FFA	Flot
	zoon cuniculi	0/10	0/10	NT	NT	0 / 10	0 / 38	SDL	Bead

¹⁾ Positive result 5.5.2015 from immunocompromised (nude) sentinels

The barrier was emptied, disinfected and repopulated in December 2014.

²⁾ Two positive results 5.5.2015, four positive results 13.12.2016

Abbreviations used in this report:

Bead

Multiplexed immunoassay

Cult

Culture

FFA

Laboratory of the Finnish Food Authority, Oulu

Flot

Faecal flotation

OULAC

Oulu Laboratory Animal Centre, University of Oulu

Micr

Microscopy

MLN

Mesenteric lymph node

NT

Not tested

PCR RT-PCR Polymerase chain reaction Reverse transcription polymerase chain reaction

SDL

Surrey Diagnostics Ltd, University of Surrey

Oulu, 9th July 2020

Place and date

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