

## ICS HEALTH MONITORING REPORT

**Date of issue: 23.10.08**

**Date of Sacrifice: 01.10.08**

The health monitoring report is performed on sentinels (strain CD1) representative of the ICS mice facility. The report provides an image of the sanitary status at the date of the sacrifice of these sentinels.

However, changes in health status can occur during the period (4 months), between two health monitoring tests.

It would be strongly recommended, therefore, to quarantine the animals incoming from the ICS, prior to introducing them into your animal facility.

**Location: ICS**

**Research Mice Unit**

**Sentinels Species : Mouse**

**Sentinels Strain : CD1**

**Investigators:**

**Armelle VAN ES, Docteur vétérinaire**

fax : (33)3.88.65.35.97

**Patrice GOETZ-REINER, Assistant ingénieur**

**Aurélie VIRLY, Assistant ingénieur**

Health monitoring frequency: four months

Dirty bedding sentinel system is used for the monitoring program

2 sentinel mice per sample

**Sampling:**

sample	room	sample	room	sample	room
85	- 0015	97	- 0022	109	- 0026
86	- 0015	98	- 0022	110	- 1041
87	- 0017	99	- 0023	111	- 1041
88	- 0017	100	- 0023	112	- 1041
89	- 0019	101	- 0023	113	- 1042
90	- 0019	102	- 0025	114	- 1042
91	- 0019	103	- 0025	115	- 1042
92	- 0019	104	- 0025	116	- 1044
93	- 0020	105	- 0026	117	- 1044
94	- 0020	106	- 0026	118	- 1044
95	- 0020	107	- 0026	119	- 1045
96	- 0022	108	- 0026	120	- 1045

<b>Viruses</b>	<b>Results</b>	<b>Method</b>	<b>Laboratory</b>
Mouse hepatitis virus (MHV)	0/37 (02.10.08)	ELISA	IGBMC
Mouse rotavirus (EDIM)	0/37 (02.10.08)	ELISA	IGBMC
Parvoviruses			
MVM	0/39 (03.10.08)	ELISA	IGBMC
NS 1	0/39 (03.10.08)	ELISA	IGBMC
MPV	0/39 (03.10.08)	ELISA	IGBMC
Pneumonia virus of mice (PVM)	0/37 (03.10.08)	ELISA	IGBMC
Sendai virus	0/37 (03.10.08)	ELISA	IGBMC

Viruses	Results	Method	Laboratory
Theiler's murine encephalomyelitis virus (GDVII)	0/37 (03.10.08)	ELISA	IGBMC
Ectromelia virus	0/37 (14.02.08)	ELISA	IGBMC
Lymphocytic choriomeningitis virus (LCMV)	0/37 (14.02.08)	ELISA	IGBMC
Mouse adenovirus (MAD)	0/37 (14.02.08)	ELISA	IGBMC
Mouse cytomegalovirus (MCMV)	0*/37 (29.05.08)	ELISA	IGBMC
Reovirus type 3 (REO 3)	0*/37 (29.05.08)	ELISA	IGBMC
Additional organisms tested:			
Hantaan virus	0/37 (26.02.08)	IFA	QM
Mouse pneumonitis virus (K virus)	0/37 (14.02.08)	ELISA	IGBMC
Mouse polyomavirus (POLY)	0/37 (14.02.08)	ELISA	IGBMC
Norovirus (MNV)	14/37 (29.05.08)	ELISA	IGBMC

\*we have found non-specific results (= IN) for MCMV or REO3 during the 13.03.08 health monitoring (this report can be send as requested).

legend: ELISA =Enzyme Linked Immuno Sorbent Assay IFA = immunofluorescence assay  
 ICS = Institut de la Clinique de la Souris  
 IGBMC=Institut de Génétique et de Biologie Moléculaire et Cellulaire  
 QM = QM Diagnostics, Nijmegen, (ICLAS - Virus Reference Centre)

Bacteria and mycoplasma	Organs	Method	Results
Citrobacter rodentium (var 1104513)	large intestin	GNB/MC	0/37 (07.10.08)
Clostridium piliforme (Tyzzer's disease)		Clinical exam and necropsy	0/37 (01.10.08)
Corynebacterium kutscheri	trachea	TPB/TSS	0/37 (07.10.08)
Mycoplasma pulmonis		ELISA	0/37 (07.10.08)
Pasteurella spp.	trachea	TPB/TSS	0/37 (07.10.08)
Salmonella spp.	large intestin	GNB/Hk	0/37 (07.10.08)
Streptococci Beta-haemolytic spp. + Lancefield Group (A, B, <b>G</b> )	trachea	TPB/CNA Strep slide II	1/03 (07.10.08)
Streptococcus pneumoniae	trachea	TPB/CNA and Optochine test	0/37 (07.10.08)
Helicobacter spp.	Faeces	PCR	19/37 (04.03.08)
hepaticus	Faeces	PCR	7/19 (06.03.08)
bilis	Faeces	PCR	0/19 (13.03.08)
Streptobacillus moniliformis		Clinical exam and necropsy	0/37 (13.02.08)
Additional organisms tested:			
Streptococci Beta-haemolytic spp. + Lancefield Group (C, not D, F) + Lancefield Group D	trachea	TPB/CNA Strep slide II Strep slide II	3/37 (07.10.08) 0/03 (07.10.08) 0/03 (07.10.08)
Bordetella bronchiseptica	trachea	TPB/TSS	0/37 (07.10.08)
Klebsiella oxytoca	large intestin	GNB/MC	0/37 (07.10.08)
Klebsiella pneumoniae	trachea	TPB/TSS	0/37 (07.10.08)
Pseudomonas aeruginosa	large intestin	GNB/PS	0/37 (07.10.08)
Staphylococcus aureus	trachea	TPB/CNA/MSA2	16/37 (07.10.08)

legend: MC - MacConkey agar medium  
 Hk - Hektoen Agar medium  
 PS - Pseudomonas Isolation Agar medium  
 TSS -Trypcase Soy + 5% Sheep Blood Agar medium

CNA	- Columbia CNA + 5% Sheep Blood Agar medium
MSA2	- Mannitol Salt 2 Agar medium
TPB	- Tryptose Phosphate Broth medium with rabbit serum
GNB	- GN Hanja Broth medium
PCR	- Polymerase Chain Reaction
ELISA	- Enzyme linked immunosorbent assay

Parasites	Test method	Results
Ectoparasites	External exam	0/37 (01.10.08)
Endoparasites		
Encephalitozoon cuniculi	ELISA	0/37 (14.02.08)
Others:		
Entamoeba muris	Direct exam of the cecal content	8/37 (01.10.08)

### Pathological lesions observed (01.10.08)

Clinical findings	0/37
Necropsy and histological findings: we realised histological exam only when macroscopical lesions were observed.	
Spleen: abscess	1*/37: mouse 112
Liver: abscess	1*/37: mouse 88
Hyperplasic mesenteric lymph nodes	1/37: mouse 112

\*Mice n°88 and 112: found negatives with Clostridium piliforme IFA test (21.10.08) by QM Diagnostics, Nijmegen, (ICLAS - Virus Reference Centre)

### History:

Enzootic Pasteurella and Helicobacter.

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**Location: ICS****Phenotyping Mice Unit****Sentinels Species : Mouse****Sentinels Strain : CD1****Investigators:****Armelle VAN ES, Docteur vétérinaire**

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**Patrice GOETZ-REINER, Assistant ingénieur****Aurélie VIRLY, Assistant ingénieur**

Health monitoring frequency: four months

Dirty bedding sentinel system is used for the monitoring program

2 sentinel mice per sample

**Sampling:**

sample	rooms
122	1051
123	1051
124	1030/1032
125	1031/1033
126	1015/1016

<b>Viruses</b>	<b>Results</b>	<b>Method</b>	<b>Laboratory</b>
Mouse hepatitis virus (MHV)	0/5 (02.10.08)	ELISA	IGBMC
Mouse rotavirus (EDIM)	0/5 (02.10.08)	ELISA	IGBMC
Parvoviruses			
MVM	0/5 (02.10.08)	ELISA	IGBMC
NS 1	0/5 (02.10.08)	ELISA	IGBMC
MPV	0/5 (02.10.08)	ELISA	IGBMC
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Lymphocytic choriomeningitis virus (LCMV)	0/5 (14.02.08)	ELISA	IGBMC
Mouse adenovirus (MAD)	0/5 (14.02.08)	ELISA	IGBMC
Mouse cytomegalovirus (MCMV)	0/5 (29.05.08)	ELISA	IGBMC
Reovirus type 3 (REO 3)	0/5 (29.05.08)	ELISA	IGBMC
Additional organisms tested:			
Hantaan virus	0/5 (26.02.08)	IFA	QM
Mouse pneumonitis virus (K virus)	0/5 (14.02.08)	ELISA	IGBMC
Mouse polyomavirus (POLY)	0/5 (14.02.08)	ELISA	IGBMC
Norovirus (MNV)	3/5 (29.05.08)	ELISA	IGBMC

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<b>Bacteria and mycoplasma</b>	<b>Organs</b>	<b>Method</b>	<b>Results</b>
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Clostridium piliforme (Tyzzer's disease)		Clinical exam and necropsy	0/5 (01.10.08)
Corynebacterium kutscheri	trachea	TPB/TSS	0/5 (07.10.08)
Mycoplasma pulmonis		ELISA	0/5 (02.10.08)
Pasteurella spp.	trachea	TPB/TSS	0/5 (07.10.08)
Salmonella spp.	large intestin	GNB/Hk	0/5 (07.10.08)
Streptococci Beta-haemolytic spp. + Lancefield Group (A, B, G)	trachea	TPB/CNA Strep slide II	0/2 (07.10.08)
Streptococcus pneumoniae	trachea	TPB/CNA and Optochine test	0/5 (07.10.08)
Helicobacter spp.	Faeces	PCR	2/5 (04.03.08)
hepaticus	Faeces	PCR	1/2 (06.03.08)
bilis	Faeces	PCR	0/2 (13.03.08)
Streptobacillus moniliformis		Clinical exam and necropsy	0/5 (13.02.08)
Additional organisms tested:			
Streptococci Beta-haemolytic spp. + Lancefield Group (C, not D, F) + Lancefield Group D	trachea	TPB/CNA Strep slide II Strep slide II	2/5 (07.10.08) 0/2 (07.10.08) 0/2 (07.10.08)
Bordetella bronchiseptica	trachea	TPB/TSS	0/5 (07.10.08)
Klebsiella oxytoca	large intestin	GNB/MC	0/5 (07.10.08)
Klebsiella pneumoniae	trachea	TPB/TSS	0/5 (07.10.08)
Pseudomonas aeruginosa	large intestin	GNB/PS	1/5 (07.10.08)
Staphylococcus aureus	trachea	TPB/CNA/MSA2	0/5 (07.10.08)

legend:	MC	- MacConkey agar medium
	Hk	- Hektoen Agar medium
	PS	- Pseudomonas Isolation Agar medium
	TSS	- Trypcase Soy + 5% Sheep Blood Agar medium
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	TPB	- Tryptose Phosphate Broth medium with rabbit serum
	GNB	- GN Hanja Broth medium
	PCR	- Polymerase Chain Reaction
	ELISA	- Enzyme linked immunosorbent assay

<b>Parasites</b>	<b>Test method</b>	<b>Results</b>
Ectoparasites	External exam	NT
Endoparasites		
Encephalitozoon cuniculi	ELISA	0/5 (14.02.08)
Others		
Entamoeba muris	Direct exam of the cecal content	3/5 (01.10.08)

#### **Pathological lesions observed (01.10.08)**

Clinical findings	0/5
Necropsy and histological findings	0/5

#### **History.**

Enzootic Pasteurella and Helicobacter.

MHV: one sentinel was found positive with our MHV ELISA test (27.01.05).

Parvovirus: one sentinel was found positive with our MPV ELISA test (24.10.02).