



# 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.



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Client: Angel Naranjo Pino. DVM, CNB Spain

(Page 1 of 7)

Laboratory Animal Unit, Centro Nacional de Biotecnologia (CNB-CSIC), C/ Darwin, 3, Campus de Cantoblanco, 28049 Madrid

Batch Code: BH-20/000735 Substances: Mouse Serum and Faeces

	Test	Current	Current	Testing	Test	
	Frequency	Test Date	Test Results	Laboratory	Method	
Serology						
IVM Minute Virus of Mice	3 Months	09/10/2020	0/1	SDL	Bead	
1HV Mouse Hepatitis Virus	3 Months	09/10/2020	0/1	SDL	Bead	
VM Pneumonia Virus of Mice	3 Months	09/10/2020	0/1	SDL	Bead	
EO III Reo Virus Type 3	3 Months	09/10/2020	0/1	SDL	Bead	
DVII TMEV	3 Months	09/10/2020	0/1	SDL	Bead	
END Sendai Virus	3 Months	09/10/2020	0/1	SDL	Bead	
DIM Epizootic Diarrhoea of Infant Mice	3 Months	09/10/2020	0/1	SDL	Bead	
PV Mouse Parvovirus	3 Months	09/10/2020	0/1	SDL	Bead	
S-1	3 Months	09/10/2020	0/1	SDL	Bead	
NV Mouse Norovirus PIL Clostridium piliforme	3 Months	09/10/2020	0/1	SDL	Bead	
	3 Months	09/10/2020	0/1	SDL	Bead	
PUL Mycoplasma species	3 Months	09/10/2020	0/1	SDL	Bead	
CMV Lymphocytic Choriomeningitis Virus	12 Months	09/10/2020 09/10/2020	0/1	SDL SDL	Bead	
ANT Hantaan Virus	12 Months		0/1		Bead	
CTRO Ectromelia Virus	12 Months 12 Months	09/10/2020 09/10/2020	0/1	SDL SDL	Bead	
CMV Mouse Cytomegalovirus	12 Months 12 Months		0/1	SDL	Bead Bead	
AD2 Mouse Adenovirus 2		09/10/2020 09/10/2020	0/1	SDL		
AD2 Mouse Adenovirus 2 DLY Polyoma Virus	12 Months 12 Months	09/10/2020	0/1	SDL	Bead	
OLY Polyoma virus Virus	12 Months	09/10/2020	0/1	SDL	Bead Bead	
TV Mouse Thymic Virus	12 Months	09/10/2020	0/1	SDL	Bead	
ARB CAR bacillus	12 Months	09/10/2020	0/1	SDL	Bead/IFA	
CUN Encephalitazoon cuniculi	12 Months	09/10/2020	0/1	SDL	Bead	
DEV Lactate Dehydrogenase Elevating Virus	12 Months	09/10/2020	0/1	SDL	Bead	
MUR Pneumocystis murina	12 Months	09/10/2020	0/1	SDL	Bead	
acteriology	12 101011113	03/10/2020	0/1	ODL	Dead	
<u> </u>						
elicobacter species	On Request	09/10/2020	0/1	SDL	PCR	
olecular Biological Testing						
spiculuris tetraptera PCR	On Request	09/10/2020	0/1	SDL	PCR	
yphacia obvelata PCR	On Request	09/10/2020	0/1	SDL	PCR	
iardia PCR	On Request	09/10/2020	0/1	SDL	PCR	
pironucleus PCR	On Request	09/10/2020	0/1	SDL	PCR	
ntamoeba spp PCR	On Request	09/10/2020	0/1	SDL	PCR	
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Bead - Multiplexed Serological Assay, PCR - Polymerase Chain Reaction, CULT - Culture, MIC - Microscopy, FLOT - Faecal Flotation, SDL - Surrey Diagnostics Ltd., AB - Abbey Veterinary Services, BD - Bio-Doc

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Batch Code: BH-20/000735 Substances: Mouse Serum and Faeces

mple Details : 20 S6 20 Lab No : 2	Test	Current	Current	Testing	Test	
	Frequency	Test Date	Test Results	Laboratory	Method	
Paralagy	, ,			,		
Serology	2.11					
IVM Minute Virus of Mice	3 Months	09/10/2020	0/1	SDL	Bead	
MHV Mouse Hepatitis Virus	3 Months	09/10/2020	0/1	SDL	Bead	
PVM Pneumonia Virus of Mice	3 Months	09/10/2020	0/1	SDL	Bead	
EO III Reo Virus Type 3	3 Months	09/10/2020	0/1	SDL	Bead	
DVII TMEV	3 Months	09/10/2020	0/1	SDL	Bead	
END Sendai Virus	3 Months	09/10/2020	0/1	SDL	Bead	
DIM Epizootic Diarrhoea of Infant Mice	3 Months	09/10/2020	0/1	SDL	Bead	
IPV Mouse Parvovirus	3 Months	09/10/2020	0/1	SDL	Bead	
S-1	3 Months	09/10/2020	0/1	SDL	Bead	
NV Mouse Norovirus	3 Months	09/10/2020	0/1	SDL	Bead	
PIL Clostridium piliforme	3 Months	09/10/2020	0/1	SDL	Bead	
PUL Mycoplasma species	3 Months	09/10/2020	0/1	SDL	Bead	
CMV Lymphocytic Choriomeningitis Virus	12 Months	09/10/2020	0/1	SDL	Bead	
ANT Hantaan Virus	12 Months	09/10/2020	0/1	SDL	Bead	
CTRO Ectromelia Virus	12 Months	09/10/2020	0/1	SDL	Bead	
CMV Mouse Cytomegalovirus	12 Months	09/10/2020	0/1	SDL	Bead	
AD1 Mouse Adenovirus 1	12 Months	09/10/2020	0/1	SDL	Bead	
AD2 Mouse Adenovirus 2	12 Months	09/10/2020	0/1	SDL	Bead	
OLY Polyoma Virus	12 Months	09/10/2020	0/1	SDL	Bead	
Virus	12 Months	09/10/2020	0/1	SDL	Bead	
TV Mouse Thymic Virus	12 Months	09/10/2020	0/1	SDL	Bead	
ARB CAR bacillus	12 Months	09/10/2020	0/1	SDL	Bead/IFA	
CUN Encephalitazoon cuniculi	12 Months	09/10/2020	0/1	SDL	Bead	
DEV Lactate Dehydrogenase Elevating Virus	12 Months	09/10/2020	0/1	SDL	Bead	
MUR Pneumocystis murina	12 Months	09/10/2020	0/1	SDL	Bead	
acteriology						
elicobacter species	On Request	09/10/2020	0/1	SDL	PCR	
olecular Biological Testing	On request	03/10/2020	0/1	ODL	TOIL	
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spiculuris tetraptera PCR	On Request	09/10/2020	0/1	SDL	PCR	
yphacia obvelata PCR	On Request	09/10/2020	0/1	SDL	PCR	
iardia PCR	On Request	09/10/2020	0/1	SDL	PCR	
pironucleus PCR	On Request	09/10/2020	0/1	SDL	PCR	
ntamoeba spp PCR	On Request	09/10/2020	0/1	SDL	PCR	
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Batch Code: BH-20/000735 Substances: Mouse Serum and Faeces

	Test	Current	Current	Testing	Test	
	Frequency	Test Date	Test Results	Laboratory	Method	
Serology						
IVM Minute Virus of Mice	3 Months	09/10/2020	0/1	SDL	Bead	
MHV Mouse Hepatitis Virus	3 Months	09/10/2020	0/1	SDL	Bead	
VM Pneumonia Virus of Mice	3 Months	09/10/2020	0/1	SDL	Bead	
EO III Reo Virus Type 3	3 Months	09/10/2020	0/1	SDL	Bead	
DVIITMEV	3 Months	09/10/2020	0/1	SDL	Bead	
END Sendai Virus	3 Months	09/10/2020	0/1	SDL	Bead	
DIM Epizootic Diarrhoea of Infant Mice	3 Months	09/10/2020	0/1	SDL	Bead	
PV Mouse Parvovirus	3 Months	09/10/2020	0/1	SDL	Bead	
S-1	3 Months	09/10/2020	0/1	SDL	Bead	
NV Mouse Norovirus	3 Months	09/10/2020	0/1	SDL	Bead	
PIL Clostridium piliforme	3 Months	09/10/2020	0/1	SDL	Bead	
PUL Mycoplasma species	3 Months	09/10/2020	0/1	SDL	Bead	
CMV Lymphocytic Choriomeningitis Virus	12 Months	09/10/2020	0/1	SDL	Bead	
ANT Hantaan Virus	12 Months	09/10/2020	0/1	SDL	Bead	
CTRO Ectromelia Virus	12 Months	09/10/2020	0/1	SDL	Bead	
CMV Mouse Cytomegalovirus	12 Months	09/10/2020	0/1	SDL	Bead	
AD1 Mouse Adenovirus 1	12 Months	09/10/2020	0/1	SDL	Bead	
AD2 Mouse Adenovirus 2	12 Months	09/10/2020	0/1	SDL	Bead	
OLY Polyoma Virus	12 Months	09/10/2020	0/1	SDL	Bead	
Virus	12 Months	09/10/2020	0/1	SDL	Bead	
TV Mouse Thymic Virus	12 Months	09/10/2020	0/1	SDL	Bead	
ARB CAR bacillus	12 Months	09/10/2020	0/1	SDL	Bead/IFA	
CUN Encephalitazoon cuniculi	12 Months	09/10/2020	0/1	SDL	Bead	
DEV Lactate Dehydrogenase Elevating Virus	12 Months	09/10/2020	0/1	SDL	Bead	
MUR Pneumocystis murina	12 Months	09/10/2020	0/1	SDL	Bead	
acteriology						
elicobacter species	On Request	09/10/2020	0/1	SDL	PCR	
lolecular Biological Testing						
spiculuris tetraptera PCR	On Request	09/10/2020	0/1	SDL	PCR	
yphacia obvelata PCR	On Request	09/10/2020	0/1	SDL	PCR	
iardia PCR		09/10/2020	0/1	SDL	PCR	
pironucleus PCR	On Request On Request	09/10/2020	0/1	SDL	PCR	
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Serology						
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HV Mouse Hepatitis Virus	3 Months	09/10/2020	0/1	SDL	Bead	
VM Pneumonia Virus of Mice	3 Months	09/10/2020	0/1	SDL	Bead	
EO III Reo Virus Type 3	3 Months	09/10/2020	0/1	SDL	Bead	
DVII TMEV	3 Months	09/10/2020	0/1	SDL	Bead	
END Sendai Virus	3 Months	09/10/2020	0/1	SDL	Bead	
OIM Epizootic Diarrhoea of Infant Mice	3 Months	09/10/2020	0/1	SDL	Bead	
PV Mouse Parvovirus	3 Months	09/10/2020	0/1	SDL	Bead	
S-1	3 Months	09/10/2020	0/1	SDL	Bead	
NV Mouse Norovirus PIL Clostridium piliforme	3 Months	09/10/2020	0/1	SDL	Bead	
	3 Months	09/10/2020	0/1	SDL	Bead	
PUL Mycoplasma species	3 Months	09/10/2020	0/1	SDL	Bead	
CMV Lymphocytic Choriomeningitis Virus	12 Months	09/10/2020	0/1	SDL	Bead	
ANT Hantaan Virus	12 Months	09/10/2020	0/1	SDL	Bead	
CTRO Ectromelia Virus	12 Months	09/10/2020	0/1	SDL SDL	Bead	
CMV Mouse Cytomegalovirus AD1 Mouse Adenovirus 1	12 Months 12 Months	09/10/2020 09/10/2020	0/1	SDL	Bead	
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AD2 Mouse Adenovirus 2 DLY Polyoma Virus	12 Months 12 Months	09/10/2020 09/10/2020	0/1	SDL SDL	Bead	
Virus	12 Months	09/10/2020	0/1	SDL	Bead Bead	
TV Mouse Thymic Virus	12 Months	09/10/2020	0/1	SDL	Bead	
ARB CAR bacillus	12 Months	09/10/2020	0/1	SDL	Bead/IFA	
CUN Encephalitazoon cuniculi	12 Months	09/10/2020	0/1	SDL	Bead	
DEV Lactate Dehydrogenase Elevating Virus	12 Months	09/10/2020	0/1	SDL	Bead	
MUR Pneumocystis murina	12 Months	09/10/2020	0/1	SDL	Bead	
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acteriology						
elicobacter species	On Request	09/10/2020	0/1	SDL	PCR	
olecular Biological Testing						
spiculuris tetraptera PCR	On Request	09/10/2020	0/1	SDL	PCR	
/phacia obvelata PCR	On Request	09/10/2020	0/1	SDL	PCR	
iardia PCR	On Request	09/10/2020	0/1	SDL	PCR	
pironucleus PCR	On Request	09/10/2020	0/1	SDL	PCR	
ntamoeba spp PCR	On Request	09/10/2020	0/1	SDL	PCR	
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	Test	Current	Current	Testing	Test	
	Frequency	Test Date	Test Results	Laboratory	Method	
Serology						
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VM Pneumonia Virus of Mice	3 Months	09/10/2020	0/1	SDL	Bead	
EO III Reo Virus Type 3	3 Months	09/10/2020	0/1	SDL	Bead	
DVIITMEV	3 Months	09/10/2020	0/1	SDL	Bead	
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S-1	3 Months	09/10/2020	0/1	SDL	Bead	
NV Mouse Norovirus PIL Clostridium piliforme	3 Months	09/10/2020	0/1	SDL	Bead	
	3 Months	09/10/2020	0/1	SDL	Bead	
PUL Mycoplasma species	3 Months	09/10/2020	0/1	SDL	Bead	
CMV Lymphocytic Choriomeningitis Virus	12 Months	09/10/2020 09/10/2020	0/1	SDL SDL	Bead	
ANT Hantaan Virus CTRO Ectromelia Virus	12 Months 12 Months	09/10/2020	0/1	SDL	Bead	
					Bead	
CMV Mouse Cytomegalovirus	12 Months	09/10/2020	0/1	SDL SDL	Bead	
AD2 Mouse Adenovirus 2	12 Months	09/10/2020 09/10/2020	0/1	SDL	Bead	
AD2 Mouse Adenovirus 2	12 Months	09/10/2020			Bead	
OLY Polyoma Virus	12 Months 12 Months	09/10/2020	0/1	SDL SDL	Bead	
Virus TV Mouse Thymic Virus	12 Months	09/10/2020	0/1	SDL	Bead Bead	
ARB CAR bacillus	12 Months	09/10/2020	0/1	SDL	Bead/IFA	
CUN Encephalitazoon cuniculi	12 Months	09/10/2020	0/1	SDL	Bead	
DEV Lactate Dehydrogenase Elevating Virus	12 Months	09/10/2020	0/1	SDL	Bead	
MUR Pneumocystis murina	12 Months	09/10/2020	0/1	SDL	Bead	
	12 WOTHIS	09/10/2020	0/1	SDL	Deau	
acteriology						
elicobacter species	On Request	09/10/2020	0/1	SDL	PCR	
lolecular Biological Testing						
spiculuris tetraptera PCR	On Request	09/10/2020	0/1	SDL	PCR	
yphacia obvelata PCR	On Request	09/10/2020	0/1	SDL	PCR	
Giardia PCR	On Request	09/10/2020	0/1	SDL	PCR	
pironucleus PCR	On Request	09/10/2020	0/1	SDL	PCR	
ntamoeba spp PCR	On Request	09/10/2020	0/1	SDL	PCR	
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VM Pneumonia Virus of Mice	3 Months 3 Months	09/10/2020 09/10/2020	0/1	SDL SDL	Bead Bead	
EO III Reo Virus Type 3 DVII TMEV	3 Months	09/10/2020	0/1	SDL	Bead	
END Sendai Virus	3 Months	09/10/2020	0/1	SDL	Bead	
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PUL Mycoplasma species	3 Months	09/10/2020	0/1	SDL	Bead	
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CMV Mouse Cytomegalovirus	12 Months	09/10/2020	0/1	SDL	Bead	
AD2 Mouse Adenovirus 2	12 Months	09/10/2020	0/1	SDL	Bead	
AD2 Mouse Adenovirus 2 DLY Polyoma Virus	12 Months 12 Months	09/10/2020 09/10/2020	0/1	SDL SDL	Bead Bead	
Virus	12 Months	09/10/2020	0/1	SDL	Bead	
TV Mouse Thymic Virus	12 Months	09/10/2020	0/1	SDL	Bead	
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MUR Pneumocystis murina	12 Months	09/10/2020	0/1	SDL	Bead	
acteriology						
elicobacter species	On Request	09/10/2020	0/1	SDL	PCR	
olecular Biological Testing	On Request	03/10/2020	0/1	ODL	TOIL	
	O . D	00/40/0000	0/4	ODI	DOD	
spiculuris tetraptera PCR	On Request On Request	09/10/2020 09/10/2020	0/1	SDL SDL	PCR PCR	
yphacia obvelata PCR iardia PCR	On Request	09/10/2020	0/1	SDL	PCR	
pironucleus PCR	On Request	09/10/2020	0/1	SDL	PCR	
ntamoeba spp PCR	On Request	09/10/2020	0/1	SDL	PCR	
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Bead - Multiplexed Serological Assay, PCR - Polymerase Chain Reaction, CULT - Culture, MIC - Microscopy, FLOT - Faecal Flotation, SDL - Surrey Diagnostics Ltd., AB - Abbey Veterinary Services, BD - Bio-Doc

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Client: Angel Naranjo Pino. DVM, CNB Spain

(Page 7 of 7)

Laboratory Animal Unit, Centro Nacional de Biotecnologia (CNB-CSIC), C/ Darwin, 3, Campus de Cantoblanco, 28049 Madrid

Batch Code: BH-20/000735 Substances: Mouse Serum and Faeces

	Test Frequency	Current Test Date	Current Test Results	Testing Laboratory	Test Method	
	Frequency	rest Date	rest Results	Laboratory	Method	
Serology						
IVM Minute Virus of Mice	3 Months	09/10/2020	0/1	SDL	Bead	
1HV Mouse Hepatitis Virus	3 Months	09/10/2020	0/1	SDL	Bead	
VM Pneumonia Virus of Mice	3 Months	09/10/2020	0/1	SDL	Bead	
EO III Reo Virus Type 3	3 Months	09/10/2020	0/1	SDL	Bead	
DVII TMEV	3 Months	09/10/2020	0/1	SDL	Bead	
END Sendai Virus	3 Months	09/10/2020	0/1	SDL	Bead	
DIM Epizootic Diarrhoea of Infant Mice	3 Months	09/10/2020	0/1	SDL	Bead	
IPV Mouse Parvovirus	3 Months	09/10/2020	0/1	SDL SDL	Bead	
S-1	3 Months	09/10/2020 09/10/2020			Bead	
NV Mouse Norovirus PIL Clostridium piliforme	3 Months 3 Months	09/10/2020	0/1	SDL SDL	Bead Bead	
PUL Mycoplasma species	3 Months	09/10/2020	0/1	SDL	Bead	
CMV Lymphocytic Choriomeningitis Virus	12 Months	09/10/2020	0/1	SDL	Bead	
ANT Hantaan Virus	12 Months	09/10/2020	0/1	SDL	Bead	
CTRO Ectromelia Virus	12 Months	09/10/2020	0/1	SDL	Bead	
CTRO Ectromella Virus  CMV Mouse Cytomegalovirus	12 Months	09/10/2020	0/1	SDL	Bead	
AD1 Mouse Adenovirus 1	12 Months	09/10/2020	0/1	SDL	Bead	
AD2 Mouse Adenovirus 2	12 Months	09/10/2020	0/1	SDL	Bead	
OLY Polyoma Virus	12 Months	09/10/2020	0/1	SDL	Bead	
Virus	12 Months	09/10/2020	0/1	SDL	Bead	
TV Mouse Thymic Virus	12 Months	09/10/2020	0/1	SDL	Bead	
ARB CAR bacillus	12 Months	09/10/2020	0/1	SDL	Bead/IFA	
CUN Encephalitazoon cuniculi	12 Months	09/10/2020	0/1	SDL	Bead	
DEV Lactate Dehydrogenase Elevating Virus	12 Months	09/10/2020	0/1	SDL	Bead	
MUR Pneumocystis murina	12 Months	09/10/2020	0/1	SDL	Bead	
acteriology	12 MOITHS	03/10/2020	0/1	ODL	Dead	
elicobacter species	On Request	09/10/2020	0/1	SDL	PCR	
Iolecular Biological Testing						
spiculuris tetraptera PCR	On Request	09/10/2020	0/1	SDL	PCR	
yphacia obvelata PCR	On Request	09/10/2020	0/1	SDL	PCR	
Giardia PCR	On Request	09/10/2020	0/1	SDL	PCR	
pironucleus PCR	On Request	09/10/2020	0/1	SDL	PCR	
ntamoeba spp PCR	On Request	09/10/2020	0/1	SDL	PCR	
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