

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 (2014)

Facility Site: Vienna facility HA

Date of Issue: 03.07.2020

Species and # Lines Present: Mouse 50 Lines

Date Location first Occupied: 26.06.2006

Species Tested: Mouse (Bedding Sentinels)

Housing type: IVC

Target Organism	Test Frequency	Testing Laboratory	Test Method	Latest Test Date	Latest Result	Cumulative Results last 18 Months
Viruses						
Sendai Virus	12 months	AnLab	ELISA, IFA	28.01.20	0/9	0/18
Pneumonia Virus of Mice (PVM)	12 months	AnLab	ELISA, IFA	28.01.20	0/9	0/18
Mouse Hepatitis Virus (MHV)	3 months	AnLab	ELISA, IFA	03.07.20	0/8	0/52
Minute Virus of Mice (MVM)	3 months	AnLab	ELISA, IFA	03.07.20	0/8	0/52
GD-7 Virus (Theiler's)	3 months	AnLab	ELISA, IFA	03.07.20	0/8	0/52
Respiratory Enteric Virus III (Reo3)	12 months	AnLab	ELISA, IFA	28.01.20	0/9	0/18
Lymphocytic Choriomeningitis Mouse Virus (LCMV)	12 months	AnLab	ELISA, IFA	28.01.20	0/9	0/18
Ectromelia Virus	12 months	AnLab	ELISA, IFA	28.01.20	0/9	0/18
Mouse Adenovirus (Mad 1+2)	12 months	AnLab	ELISA, IFA	28.01.20	0/9	0/18
Mouse Parvo Virus (MPV 1+2)	3 months	AnLab	ELISA, IFA	03.07.20	0/8	0/52
Mouse Rotavirus (EDIM)	3 months	AnLab	ELISA, IFA	03.07.20	0/8	0/52
Mouse Norovirus (MNV)	3 months	AnLab	ELISA, IFA	03.07.20	0/8	0/52
Bacteria, Mycoplasma, Fungi						
Mycoplasma pulmonis (MPUL)	12 months	AnLab	ELISA, IFA	28.01.20	0/9	0/18
Mycoplasma sp.	12 months	AnLab	Culture	28.01.20	0/9	0/18
Clostridium piliforme (Tyzzer's)	12 months	AnLab	PCR/ELISA	28.01.20	0/9	0/18
Bordetella bronchiseptica	3 months	AnLab	Culture	03.07.20	0/8	0/52
Corynebacterium kutscheri	3 months	AnLab	Culture	03.07.20	0/8	0/52
Klebsiella pneumoniae	3 months	AnLab	Culture	03.07.20	0/8	0/52
Klebsiella oxytoca	3 months	AnLab	Culture	03.07.20	0/8	0/52
Pasteurella multocida	3 months	AnLab	Culture	03.07.20	0/8	0/52
Pasteurella pneumotropica	3 months	AnLab	Culture	03.07.20	0/8	0/9
Pasteurella pneumotropica-Heyl (Rodentibacter heylii)	3 months	AnLab	Culture	03.07.20	0/8	0/43
Pasteurella pneumotropica-Jawetz (Rodentibacter pneumotropicus)	3 months	AnLab	Culture	03.07.20	0/8	0/43

Rodentibacter sp. (Pasteurella sp.)	3 months	AnLab	Culture	03.07.20	0/8	0/52
Pseudomonas aeruginosa	3 months	AnLab	Culture	03.07.20	0/8	0/52
Pseudomonas sp.	3 months	AnLab	Culture	03.07.20	0/8	0/52
Staphyloc. aureus	3 months	AnLab	Culture	03.07.20	0/8	1/52 ¹
Beta Streptoc. Group A	3 months	AnLab	Culture	03.07.20	0/8	0/43
Beta Streptoc. Group B	3 months	AnLab	Culture	03.07.20	0/8	0/52
Beta Streptoc. Group C	3 months	AnLab	Culture	03.07.20	0/8	0/43
Beta Streptoc. Group G	3 months	AnLab	Culture	03.07.20	0/8	0/52
Beta Streptoc. sp.	3 months	AnLab	Culture	03.07.20	0/8	0/52
Y. pseudotub.	3 months	AnLab	Culture	03.07.20	0/8	0/52
Streptobac. moniliformis	12 months	AnLab	Culture	28.01.20	0/9	0/18
Salmonella sp.	12 months	AnLab	Culture	28.01.20	0/9	0/18
Citrobacter rodentium	3 months	AnLab	Culture	03.07.20	0/8	0/52
Citrobacter sp.	3 months	AnLab	Culture	03.07.20	0/8	0/52
Streptococcus pneumoniae	3 months	AnLab	Culture	03.07.20	0/8	0/52
Helicobacter sp.	3 months	AnLab	PCR	03.07.20	0/8	0/52
Proteus mirabilis	3 months	AnLab	Culture	03.07.20	0/8	0/52
Other	3 months	AnLab	IFA / Culture	03.07.20	0/8	7/52 ²
Parasites						
Ectoparasites	3 months	AnLab	Direct Exam	03.07.20	0/8	0/52
Adult Helminths	3 months	AnLab	Direct Exam	03.07.20	0/8	0/52
Ova	3 months	AnLab	Direct Exam	03.07.20	0/8	0/52
Protozoa	3 months	AnLab	Direct Exam	03.07.20	0/8	0/52
Pathology						
Heart	3 months	AnLab	Direct Exam	03.07.20	0/8	0/52
Lung	3 months	AnLab	Direct Exam	03.07.20	1/8	1/52 ³
Liver	3 months	AnLab	Direct Exam	03.07.20	0/8	0/52
Spleen	3 months	AnLab	Direct Exam	03.07.20	0/8	0/52
Kidney	3 months	AnLab	Direct Exam	03.07.20	1/8	1/52 ⁴
Eyes	3 months	AnLab	Direct Exam	03.07.20	0/8	0/52
Other	3 months	AnLab	Direct Exam	03.07.20	0/8	10/52 ⁵

¹ Positive result from routine testing on 8th of October 2018 NOT confirmed by repeated testing on 25th of October 2018 (0/2) and by second retesting on 13th of November 2018 (0/10)

² 08.10.2018: 1x Corynebakterium amycolatum; 18.01.2019: 2x Corynebakterium amycolatum; 01.04.2019: 1x Corynebakterium amycolatum; 16.10.2019: 1x Corynebakterium amycolatum; 28.01.2020: 2x Paenibacillus humicus

³ 03.07.2020: 1x abnormal lung

⁴ 03.07.2020: hydronephrosis

⁵ 18.01.2019: 2x ovarian cysts, 2x cystic endometrial hyperplasia; 01.04.2019: ovarian cyst, cystic endometrial hyperplasia, tumour in wall of the uterus; 03.07.2019: 1x cystic endometrial hyperplasia, 3x ovarian cysts; 16.10.2019: 1x cystic endometrial hyperplasia and ovarian cysts

Approved by: _____

Dr. Thomas Kolbe

REPORT DATE: 03.07.2020

AnLab Ltd.
142 20 Prague 4, Videnska 1083, Czech Republic
Phone: +420 261 711 667 Fax: +420 261 711 719
<http://www.anlab.cz> info@anlab.cz

SUMMARY RESULTS REPORT

To:
BIOMODELS AUSTRIA

University of Veterinary Medicine
Build. HA/1/2 Veterinaerplatz 1, Vienna, A-1210
Dr. Thomas Kolbe

PROTOCOL No.: 2000297
PURCHASE ORDER: 083/2020
RECEIPT DATE: 24.06.2020
COMPLETION DATE: 03.07.2020
SPECIMEN: 8 MICE
ROOM: Box 2 - HA
FACILITY: BIOMODELS AUSTRIA

SAMPLE GROUPS

Strain	Sex	Age	IDs
black mice	F	xxx	001-002
agouti mouse	F	xxx	003
white mouse	F	xxx	004
black mouse	F	xxx	005
agouti mouse	F	xxx	006
black mouse FARM	F	xxx	007
black mouse C57BL/6N	F	xxx	008

BACTERIOLOGY		
<i>All results are negative.</i>		
PARASITOLOGY		
<i>All results are negative.</i>		
PATHOLOGY		
ROUTINE AUTOPSY	LUNG	1 / 8
ROUTINE AUTOPSY	KIDNEY	1 / 8
HISTO - LUNG		1 / 1
SEROLOGY		
<i>All results are negative.</i>		
PCR		
<i>All results are negative.</i>		

BACTERIOLOGY RESULTS REPORT

ID	001	002	003	004	005	006	007	008
Customer ID	2	3	4	5	6	8	14	76
BT1 RESPIRATORY TRACT - RODENTS/RABBITS								
BORDETELLA BRONCHISEPTICA	-	-	-	-	-	-	-	-
CORYNEBACTERIUM KUTSCHERI	-	-	-	-	-	-	-	-
STREP. PNEUMONIAE	-	-	-	-	-	-	-	-
BETA-HEMOL. STREP. GRP A	-	-	-	-	-	-	-	-
BETA-HEMOL. STREP. GRP B, C, G	-	-	-	-	-	-	-	-
OTHER BETA-HEMOL. STREP.	-	-	-	-	-	-	-	-
PASTEURELLA MULTOCIDA	-	-	-	-	-	-	-	-
PASTEURELLA SP.	-	-	-	-	-	-	-	-
RODENTIBACTER SP.	-	-	-	-	-	-	-	-
PSEUDOMONAS AERUGINOSA	-	-	-	-	-	-	-	-
PSEUDOMONAS SP.	-	-	-	-	-	-	-	-
STAPH. AUREUS	-	-	-	-	-	-	-	-
KLEBSIELLA PNEUMONIAE	-	-	-	-	-	-	-	-
KLEBSIELLA OXYTOCA	-	-	-	-	-	-	-	-
YERSINIA SP.	-	-	-	-	-	-	-	-
OTHER	-	-	-	-	-	-	-	-
BT5 COLON - MOUSE								
RODENTIBACTER SP.	-	-	-	-	-	-	-	-
PSEUDOMONAS AERUGINOSA	-	-	-	-	-	-	-	-
STAPH. AUREUS	-	-	-	-	-	-	-	-
KLEBSIELLA PNEUMONIAE	-	-	-	-	-	-	-	-
KLEBSIELLA OXYTOCA	-	-	-	-	-	-	-	-
CITROBACTER RODENTIUM	-	-	-	-	-	-	-	-
CITROBACTER SP.	-	-	-	-	-	-	-	-
YERSINIA SP.	-	-	-	-	-	-	-	-
OTHER	-	-	-	-	-	-	-	-
BT11 VAGINA/PREPUCE								
BETA-HEMOL. STREPTOCOCCI	-	-	-	-	-	-	-	-
PASTEURELLA MULTOCIDA	-	-	-	-	-	-	-	-
PASTEURELLA SP.	-	-	-	-	-	-	-	-
RODENTIBACTER SP.	-	-	-	-	-	-	-	-
STAPH. AUREUS	-	-	-	-	-	-	-	-
PROTEUS MIRABILIS	-	-	-	-	-	-	-	-
OTHER	-	-	-	-	-	-	-	-

Notice:

Usual microflora of colon (Enterococcus sp. and Coagulase-negative staphylococci) is not mentioned in this protocol.

PATHOLOGY RESULTS REPORT

ID	001	002	003	004	005	006	007	008
Customer ID	2	3	4	5	6	8	14	76
PT1 ROUTINE AUTOPSY								
HEART	-	-	-	-	-	-	-	-
LUNG	Al	-	-	-	-	-	-	-
LIVER	-	-	-	-	-	-	-	-
SPLEEN	-	-	-	-	-	-	-	-
KIDNEY	-	-	Hnp	-	-	-	-	-
OTHER	-	-	-	-	-	-	-	-
Additional tests								
HISTO - LUNG	Hi							

Abbreviations used:

Hnp= Hydronephrosis

Al= Abnormal lung

Hi= Histiocytic infiltration

Comment:

Pathomorphology

Mouse No. 001 (our ID in this protocol) - a cranial part of left lung - a pronounced gray-white area (2 mm in diameter) - sampled for histopathology;

Mouse No. 003 - hydronephrosis of the left kidney;

Histopathology

Mouse No. 001

Lung: Moderate alveolar emphysema. Focus of histiocytic infiltration in the pulmonary interstitium. Mild diffuse infiltration of the pulmonary interstitium with cells of histiocytic morphology.

PCR RESULTS REPORT

ID	001	002	003	004	005	006	007	008
Customer ID	2	3	4	5	6	8	14	76
PC1 PCR HELICOBACTER - MOUSE								
HELICOBACTER SPP.	-	-	-	-	-	-	-	-
HELICOBACTER HEPATICUS	ND	ND	ND	ND	ND	ND	ND	ND
HELICOBACTER BILIS	ND	ND	ND	ND	ND	ND	ND	ND
HELICOBACTER TYPHLONIUS	ND	ND	ND	ND	ND	ND	ND	ND

SCORE: - = Negative, + = Positive, ND = Not Done;