

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

Health monitoring is conducted according with FELASA recommendations for the health monitoring of mouse, rat, hamster, guinea pig and rabbit colonies in breeding and experimental units (Lab Anim, March 4, 2014). Additional to the examination of sentinel mice regular testing of colony mice as well as filter material is reported (ENV).

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|---|---|-----------------------|--|--------------------------|------------|---------|-------------------|---|---------------------|--------|--|--|
| Institute | Helmholtz Zentrum München German Research Center of Environmental Health | | | | | | | | | | | |
| Address | Ingolstädter Landstr. 1 85764 Neuherberg | | | | | | | | | | | |
| Area: | Barrier ICE Unit | test frequency | historical results 18 months sentinel | Latest test results 2017 | | | | historical results 18 months environmental | Latest test results | | | |
| Rooms: | 203,205,219,220 | | | Date: | 06.06.2017 | | Date: | | 15.06.2017 | | | |
| Housing: | IVC | | | Rep #: | 891 | | Rep #: | | ENV 6 | | | |
| Species: | Mouse | | | | | | | | | | | |
| Viruses | | | positive / tested | positive / tested | Laboratory | Method | positive / tested | positive / tested | Laboratory | Method | | |
| Mouse hepatitis virus (MHV) | quarterly | 0 / 84 | 0 / 30 | mfd | ELISA | 0 / 21 | 0 / 2 | Charles River | qPCR | | | |
| Mouse rotavirus (EDIM) | quarterly | 0 / 84 | 0 / 30 | mfd | ELISA | 0 / 21 | 0 / 2 | Charles River | qPCR | | | |
| Murine norovirus (MNV) | quarterly | 0 / 84 | 0 / 30 | mfd | ELISA | 0 / 21 | 0 / 2 | Charles River | qPCR | | | |
| Minute virus of mice (MVM) | quarterly | 0 / 84 | 0 / 30 | mfd | ELISA | 0 / 21 | 0 / 2 | Charles River | qPCR | | | |
| Mouse parvovirus (MPV) | quarterly | 0 / 84 | 0 / 30 | mfd | ELISA | 0 / 21 | 0 / 2 | Charles River | qPCR | | | |
| Theiler's murine encephalomyelitis virus (TMEV) | quarterly | 0 / 84 | 0 / 30 | mfd | ELISA | 0 / 21 | 0 / 2 | Charles River | qPCR | | | |
| Lymphocytic choriomeningitis virus (LCMV) | annually | 0 / 84 | 0 / 30 | mfd | ELISA | 0 / 21 | 0 / 2 | Charles River | qPCR | | | |
| Mouse adenovirus type 1 (FL) | annually | 0 / 84 | 0 / 30 | mfd | ELISA | 0 / 21 | 0 / 2 | Charles River | qPCR | | | |
| Mouse adenovirus type 2 (K87) | annually | 0 / 84 | 0 / 30 | mfd | ELISA | 0 / 21 | 0 / 2 | Charles River | qPCR | | | |
| Mousepox (ectromelia) virus | annually | 0 / 84 | 0 / 30 | mfd | ELISA | 0 / 21 | 0 / 2 | Charles River | qPCR | | | |
| Pneumonia virus of mice (PVM) | annually | 0 / 84 | 0 / 30 | mfd | ELISA | 0 / 21 | 0 / 2 | Charles River | qPCR | | | |
| Reovirus type 3 (REO3) | annually | 0 / 84 | 0 / 30 | mfd | ELISA | 0 / 21 | 0 / 2 | Charles River | qPCR | | | |
| Sendai virus (SV) | annually | 0 / 84 | 0 / 30 | mfd | ELISA | 0 / 21 | 0 / 2 | Charles River | qPCR | | | |
| Bacteria | | | | | | | | | | | | |
| <i>Helicobacter</i> spp. | quarterly | 0 / 84 | 0 / 30 | mfd | PCR | 0 / 21 | 0 / 2 | Charles River | qPCR | | | |
| <i>H. hepaticus</i> | quarterly | 0 / 84 | 0 / 30 | mfd | PCR | 0 / 21 | 0 / 2 | Charles River | qPCR | | | |
| <i>H. bilis</i> | quarterly | 0 / 84 | 0 / 30 | mfd | PCR | 0 / 21 | 0 / 2 | Charles River | qPCR | | | |
| <i>H. typhlonius</i> | quarterly | 0 / 84 | 0 / 30 | mfd | PCR | 0 / 21 | 0 / 2 | Charles River | qPCR | | | |
| <i>Pasteurella pneumotropica</i> | quarterly | 0 / 84 | 0 / 30 | mfd | Culture | 0 / 21 | 0 / 2 | Charles River | qPCR | | | |
| Streptococci β -haemolytic (not group D) | quarterly | 0 / 84 | 0 / 30 | mfd | Culture | 0 / 21 | 0 / 2 | Charles River | qPCR | | | |
| <i>Streptococcus pneumoniae</i> | quarterly | 0 / 84 | 0 / 30 | mfd | Culture | 0 / 21 | 0 / 2 | Charles River | qPCR | | | |
| <i>Citrobacter rodentium</i> | annually | 0 / 84 | 0 / 30 | mfd | Culture | 0 / 21 | 0 / 2 | Charles River | qPCR | | | |
| <i>Clostridium piliforme</i> (Tyzzer's disease) | annually | 0 / 84 | 0 / 30 | mfd | ELISA | 0 / 21 | 0 / 2 | Charles River | qPCR | | | |
| <i>Corynebacterium kutscheri</i> | annually | 0 / 84 | 0 / 30 | mfd | Culture | 0 / 21 | 0 / 2 | Charles River | qPCR | | | |
| <i>Mycoplasma pulmonis</i> | annually | 0 / 84 | 0 / 30 | mfd | ELISA | 0 / 21 | 0 / 2 | Charles River | qPCR | | | |
| <i>Salmonella</i> spp. | annually | 0 / 84 | 0 / 30 | mfd | Culture | 0 / 21 | 0 / 2 | Charles River | qPCR | | | |
| <i>Streptobacillus moniliformis</i> | annually | 0 / 84 | 0 / 30 | mfd | PCR | 0 / 21 | 0 / 2 | Charles River | qPCR | | | |
| Parasitological infections | | | | | | | | | | | | |
| <i>Aspiculuris</i> sp. | quarterly | 0 / 84 | 0 / 30 | mfd | Microscopy | 0 / 21 | 0 / 2 | Charles River | qPCR | | | |
| <i>Syphacia</i> sp. | quarterly | 0 / 84 | 0 / 30 | mfd | Microscopy | 0 / 21 | 0 / 2 | Charles River | qPCR | | | |
| Coccidia | quarterly | 0 / 84 | 0 / 30 | mfd | Microscopy | 0 / 21 | 0 / 2 | Charles River | qPCR | | | |
| <i>Giardia</i> sp. | quarterly | 0 / 84 | 0 / 30 | mfd | Microscopy | 0 / 21 | 0 / 2 | Charles River | qPCR | | | |
| <i>Spironucleus muris</i> | quarterly | 0 / 84 | 0 / 30 | mfd | Microscopy | 0 / 21 | 0 / 2 | Charles River | qPCR | | | |
| <i>Trichomonas</i> sp. | quarterly | 0 / 84 | 0 / 30 | mfd | Microscopy | 0 / 21 | 0 / 2 | Charles River | qPCR | | | |
| Others | quarterly | 0 / 84 | 0 / 30 | mfd | Microscopy | nt / nt | nt / nt | Charles River | qPCR | | | |
| Ectoparasites | quarterly | 0 / 84 | 0 / 30 | mfd | Microscopy | 0 / 21 | 0 / 2 | Charles River | qPCR | | | |
| Pathological lesions: | | | | | | | | | | | | |
| none observed | | | | | | | | | | | | |

Comment:

Presence of opportunistic organisms will be communicated upon request.

mfd: mfd Diagnostics, nt: not tested

Neuherberg,
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