



SAFETY INSTRUCTIONS S2
PETRA III, bldg. 47c/L045, L047
BBS: Dr. Susanne Witt PL: Dr. Michael Köpke
according to § 12 Abs. 2 GenTSV

Michael Köpke
July 2022

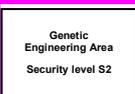
SECURITY DECLARATION

Genetic Engineering Area - Biosafety Level 2

Biological agents of safety level 2 (Viruses, Bacteria, Fungi, Endoparasites) can cause infections and sicknesses in humans and might be a hazard to employees. It is unlikely to spread to the community; effective prophylaxis or treatment is usually available whilst an allergic or toxic potential is possible.

An uptake of biological agents is possible via inhalation of aerosols, swallowing of the sample, penetration of the skin or direct sample contact to the eyes or mucosa.

SAFETY PRECAUTIONS



- Only qualified and trained personal is allowed to do genetic engineering works.
- All work with biological agents of risk group 2 has to be conducted in genetic engineering facilities of safety level 2.
- Closed lab coat, closed shoes, safety glasses and gloves have to be worn when working in the lab. Take off lab coat and gloves before leaving laboratory and do not touch handles, switches or phones with gloves to avoid cross contamination.
- Contaminated clothing has to be put into a labeled bag and lead to disinfectant cleaning. Gloves have to be discarded in hazardous waste containers.
- Hands have to be disinfected and cleaned when leaving the lab or in case of a contamination. The skin has to be taken care of following skin care instructions.
- Mouth pipetting is prohibited, instead pipetting aids must be used.
- Use safety workbench whenever the release of aerosols is to be expected. When finished, disinfect every involved surface using 70% EtOH plus the integrated UV sterilization function.
- All samples have to be labeled and stored in closed condition, use the freezer logbook.
- Doors and windows have to be kept closed while work is in progress.
- Avoid using hypodermic needles and other sharp items. Take special care if using sharps. If using needles, do not recap but dispose directly into a multi-safe box.
- Always keep the laboratory and your working place tidy and clean.
- After usage of safety workbench, microscope, centrifuge or autoclave make an entry in the logbook provided for each device.
- Drinking, eating, smoking, chewing gum, applying cosmetics and handling contact lenses is prohibited.
- Identity and purity of the organisms has to be checked regularly and confirmed by the user prior to the experiment via the DOOR registry system of DESY.

TECHNICAL EMERGENCIES

Technical emergency: 2500

External: 004940 8998 2500



- In case of accidental release of genetically modified organisms in high amounts, alert colleagues and close the area if necessary. Inform the project leader Michael Köpke (2406) or the biological safety officer Susanne Witt (87567).
- Spillage has to be absorbed immediately using cellulose which has to be autoclaved afterwards.
- Inactivate contaminated items and surfaces using disinfectants (EtOH 70%).
- Take care of self-protection measures when removing contaminated material (lab coat, gloves, glasses etc.).
- Disinfect contaminated skin areas using Bode Sterilium (see skin care plan).



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FIRST AID

FIRST AID UNIT: 2500



- Wash open wounds with running water and make them bleed. Disinfect wound using 70 % ethanol.
- In case of splashes into the eye, rinse with plenty of water and consult the institute physician tel. 2171 or the emergency service tel. 2500 in case of any doubt.
- Consult the institute physician tel. 2171 or the emergency service tel. 2500 if contaminated material or genetically modified organisms are swallowed or incorporated by physical injury.
- Report any accident to the project leader Michael Köpke (2406) or the biological safety officer Susanne Witt (87567) and record in the first aid note book house 47c, stairway room L043

TRANSPORTATION AND DISPOSAL



- Transportation of biological agents is allowed only within closed, ruggedized containers that are labeled as biological safety containers and disinfected from the outside after loading. The same goes for the transport of contaminated waste.
- All waste, containing genetically engineered organisms, has to be autoclaved. If autoclaving is not possible, e. g. in case of selenomethionine containing solutions, liquid waste has to be inactivated chemically using e. g. Virkon S (1 % v/v conc. \geq 30 mins).