



Operating instructions for genetic engineering laboratories of safety level 1 according to § 12 Gentechnikverordnung

Hazard designation

Safety level 1 is to be assigned to genetic engineering work which, according to the state of the art in science and in compliance with the rules of conduct described in the operating instructions, is not expected to pose a risk to human health and the environment.

Hazards for people and environment

In the case of genetically modified organisms (GMOs) of risk group 1 used in safety level 1, an infection risk for humans is unlikely. However, a sensitizing or toxic potential cannot be ruled out.

Protective measures and rules of conduct



– Activities involving genetically modified organisms (GMOs) of risk group 1 may only be carried out in genetic engineering laboratories of safety level 1 or higher



– Only authorized persons have access to the laboratory

– In the laboratory, a closed lab coat, sturdy and closed shoes and, if necessary, protective goggles must be worn. Protective clothing may only be worn in the work rooms and must be removed when leaving the laboratory



– Mouth pipetting is prohibited. Only use pipetting aids for pipetting

– During all work processes it must be ensured that aerosol formation is avoided

– Doors and windows of the work rooms should be closed during the work

– Keep workplace tidy and clean

– Do not eat, smoke, drink, chew gum or apply cosmetics in the laboratory

– Skin protection plan and hygiene plan apply

Disposal

Solid and liquid waste containing GMOs must be inactivated before disposal - 121°C, 1 bar for 20 min – Autoclave is in anteroom to room 116

Behavior in the event of danger

Building management system (available around the clock): 34333

If biological material is released (e.g. spillage, breakage of a culture bottle) the affected area must be secured. Warn employees, if necessary seal off the area. Put on protective gloves; absorb liquids with paper towels and autoclave afterwards. Immediately treat contaminated area with disinfectant according to the hygiene plan.

Erste Hilfe



– Take off wetted clothing immediately and use again only after disinfectant cleaning

– Rinse open wounds, bleed out if possible and spray immediately with wound disinfectant. In case of splashes in the eye, rinse intensively with the eye shower

– Injuries must be reported immediately to the project manager or the BBS, if necessary the nearest D-doctor must be consulted