

Operating Instructions ultrasonic homogenizer

Building: SupraFAB

Area of application:
Freie Universität Berlin
Altensteinstr. 23a



Operating Instructions – Working with ultrasonic homogenizer According to Occupational Health and Safety Regulation

Work space: SupraFAB

Work station: Room 115.2

Hazards for people and the environment



Risk of damage to health due to ultrasonic noise (in particular of the hearing organ).

Protective measures and rules of behaviour



Only instructed persons may work with the ultrasonic homogenizer.

Wear suitable hearing protection.

Close the door of the sound abating chamber to reduce noise.

Do not operate the device without supervision.

Do not touch the sonication vessels with the oscillating probe - probes and vessels could be damaged.



Do not use any bent probes (→ unstable operation, loss of power).

In general, the recommended immersion depth for probes is of 10 - 20 mm, to prevent the aspiration and mixing-in of air. The immersion depth may not exceed 20 mm in the case of micro and tapered tips.



Do not use combustible solvents in open reaction vessels since the operating safety of the homogenizer could be compromised. Do not expose the unit to corroding influences.

Sonicating parts (micro- or tapered tips), vessels and accessories are to be disinfected and cleaned, and dismantled for this purpose if necessary, after every use. Do not use any abrasive cleaners, **only the use of 70% EtOH and ddH₂O is allowed.**

Follow the manufacturer's operating instructions.

Behaviour in case of danger



Inform the person responsible for the area immediately in the event of faults! Switch off the machine!

In case of fire: Keep calm!

Call the fire department on 112! Inform the central control room on 55112!

Warn employees!

Fight the fire with a CO₂ extinguisher! Pay attention to self protection.

First aid



Inform first aiders (see alarm plan). Treat minor injuries immediately and enter them in the first aid book.

In the event of more serious injuries, consult a general practitioner or call an emergency doctor.

Inform the workshop management.

Rescue service: **112**

Proper disposal Service

Repairs may only be carried out by authorised, qualified persons. Regular inspections may only be carried out by authorised persons.

For further questions, please contact the Occupational Safety department

Tel.: -54495

Date and Signature