

Operating Instructions real time PCR System

Building: SupraFAB

Area of application:
Freie Universität Berlin
Altensteinstr. 23a



Operating Instructions – Working with real time PCR System (CFX Opus Thermo Fisher) According to Occupational Health and Safety Regulation

Work space: SupraFAB

Work station: Room 115.4

Hazards for people and the environment



Danger from burning on hot surfaces (sample block, heated lid).

Danger from electrical accidents - contact with the electronics only when the appliance is switched off. Otherwise there is a risk of electric shock.



Danger of explosion, or of expulsion of liquids or vapours from the sample containers.



Risk of release of biological agents in the event of improper working methods.

Protective measures and rules of behaviour



Only instructed persons may work on the Real Time PCR system!

Every Real Time PCR run must be documented!

No flammable, harmful or radioactive liquids may be used!

Users should always operate the instrument with the lid closed or wear safety goggles, thermal gloves, and other personal protection equipment during operation to avoid injury. Opening the instrument while samples are still hot, such as after aborting a run, can allow pressurized containers to leak, spray, or spurt liquid.



Always allow the samples and sample block to cool before opening the lid.

When handling biohazardous samples adhere to the recommended precautions and guidelines specific to the laboratory and location.



Disinfect contaminated work surfaces with 70 % ethanol!

Do not place any items in front of the drawer as they may fall over when the drawer is opened!

Do not block the ventilation openings!

Do not place any objects on the power supply unit, as there is a risk of overheating!

The humidity should not exceed 80 %!

Users should never run a reaction with a lid or seal that is open, loose, punctured, or otherwise damaged because it will increase the likelihood of a dangerous rupture or explosion.

Behaviour in case of danger



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


Do not attempt to rectify faults in the power supply at the rear of the Real Time PCR system yourself

Work on live systems or parts may only be carried out by trained electricians

Work on non-voltage-carrying systems or parts may only be carried out by qualified personnel!

In case of fire: Keep calm!

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

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Warn employees! Inform the person responsible for the area!
Fight the fire with a powder, CO₂ or foam 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 of division manager: