

Operating Instructions Spectrophotometer

Building: SupraFAB

Area of application:
Freie Universität Berlin
Altensteinstr. 23a



Operating Instructions – Spectrophotometer (ThermoScientific, Typ: NanoDrop 2000/2000c)

According to Occupational Health and Safety Regulation

Work space: SupraFAB

Work station: Room 114

Hazards for people and the environment



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



Protective measures and rules of behaviour



Only instructed persons may work on the NanoDrop 2000/2000c!

The NanoDrop is cleaned as follows:

between two sample measurements: with a dry, lint-free cloth.

between two users: clean with 2 µL dH₂O before and after the sample measurements.

Additional cleaning (after consultation with the person responsible for the device): possible with 0.5 M HCL, then apply 3-5 µL dH₂O to the base, leave to incubate for 2-3 min, dry with a lint-free dry cloth.

Decontamination (after consultation with the person responsible for the device): possible with 0.5 % sodium hypochlorite. Then apply 3-5 µL dH₂O to the base, incubate for 2-3 min, dry with a lint-free dry cloth.

All forms of hydrofluoric acid must not be applied to the base! These can destroy the optical quartz fiber.

Do not apply alcohols, bleach, acetone or other solvents on the membrane (surrounding the base) for longer than one minute! These can destroy the adhesive of the seal.

Only apply dH₂O and samples using a pipette (not a spray bottle)!

Dust can be removed from the cuvette shaft using compressed air!

If liquids get into the cuvette shaft, clean them with a laboratory cloth!

Do not use any liquids to clean the cell shaft!

Do not use scratched or fingerprinted cuvettes, should not be used for measuring.

Do not use any liquids to clean the cuvette shaft!

Do not use cuvettes that are scratched or have fingerprints on them, be used for measuring! The ambient temperature should be between 15 °C and 35 °C!

The humidity should be between 35 - 65 %!

Do not smoke, eat or drink at the workplace


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 NanoDrop 2000/2000c 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!

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In case of fire: Keep calm!
 Call the fire department on **112**! Inform the central control room on **55112**!
 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: