

N-96 / S-48

Quick Operation Guide

MEDINO
biotech
SHT Technology GmbH



N-96



S-48

Operating Instructions

1. Connect the power cable, press the air switch, then press the power button. (The air-switch indicator lights up red.)

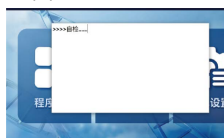


Air switch



Power button

2. Wait for the self-test (A). Once complete, the instrument enters the home screen (B).



A - Self-test



B - Home screen

3. Open the chamber door and remove the deep-well plate sealing film. Per the reagent kit instructions, place the reagent-filled deep-well plate into the matching work station, sitting flat and level, label side facing the outside of the N-96 (left) or the right side of the S-48 (right).

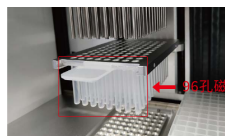


(N-96)

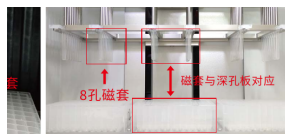


(S-48)

1. Insert the tip combs. Push the 96-well magnetic tip comb fully into the rack until firmly seated (N-96). For the S-48, press the tip-comb handle and insert the 8-well tip comb into the matching socket; pull gently to confirm it will not come loose (S-48).



(N-96)



(S-48)

2. Close the chamber door and tap "Program List". Select the required protocol, or use the white search box (A) to find it by name, then open the program-editing screen (B).



(A)

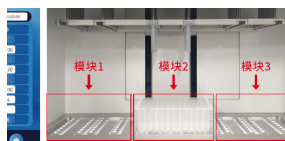


(B)

3. Tap Start/Pause ►. A message confirms the protocol was saved. Tap Start/Pause again; a pop-up asks whether the tip combs are installed — tick the module(s) in use, then confirm with "✓" (S-48 only). The run then starts.



Confirm tip-comb installation



Module 1 / 2 / 3

4. During the run, the screen shows the total countdown, current step, work-station and action; Start/Pause turns red ■. Tap the LED icon to light the chamber if you need to check inside.



1. When extraction is complete, the countdown reaches zero, the display returns to the program-editing screen and an audible alert sounds. Open the chamber door and remove all deep-well plates and tip combs.
2. At the end of the experiment, tap the home icon to return to the home screen, select UV lamp, enter the irradiation time, then tap ► to start it. The UV lamp switches off automatically when the countdown finishes. (Note: the chamber door must be closed while the UV lamp is on.)



Safety Notes

1. Read the full instrument manual carefully before use, and complete hands-on training organised by a qualified engineer.
2. Observe electrical safety at all times; never operate the instrument with wet hands.
3. Do not touch the heating block by hand while a programme is running, to avoid burns.
4. Always install the tip combs before each run — do not let the magnetic rods contact the solution directly; if contaminated, wipe with 75% ethanol or distilled water and a clean cloth.
5. Always make sure the deep-well plate is placed completely level, otherwise the magnetic rods/tip combs cannot work correctly, causing incomplete bead capture.
6. Do not spray disinfectant inside the chamber. Clean the instrument surfaces regularly with 75% ethanol; clean up spills inside the chamber promptly to avoid corrosive liquid reaching the rails.
7. Regularly clean all internal work stations and rails to keep the chamber free of debris that could cause unstable positioning.
8. Regularly spray a suitable nucleic-acid decontamination solution onto bench, instrument and equipment surfaces to reduce aerosol contamination risk.
9. Only qualified after-sales personnel may open the instrument to replace parts or perform internal adjustments, once authorised by the manufacturer.
10. In the event of a sudden fault, switch off the instrument promptly and contact technical support.

Technical support: Medino / SHT Technology GmbH · Niederhöchstädter Str. 64, 61476 Kronberg im Taunus, Germany · Tel.: +49 176 34989414 · <https://sht-medino.de/>