

HAMILTON

Clinical NGS STARlet

Smart library preparation for clinical genomic labs

CE IVD



Safety & Compliance: CE IVD compliant system that allows full traceability of samples and reagents throughout the workflow



Convenience: Extended walk-away time for typical NGS library preparation workflows



Efficiency: Automated library prep for high priority samples or smaller sample throughput

Compact. Efficient. Automation.

Today, a key element in NGS is the automation of library preparation process, in order to cope with usability, reproducibility, traceability and safety needs; also for smaller-sample batches. Hamilton targets these needs with the Clinical NGS STARlet, an automated library preparation system for high-priority samples, as well as for small-to-mid-size sample throughput (up to 24 samples). This Hamilton sample-to-result solution saves time and valuable lab space, and it increases your efficiency while the process reliability for both you and your samples is guaranteed.

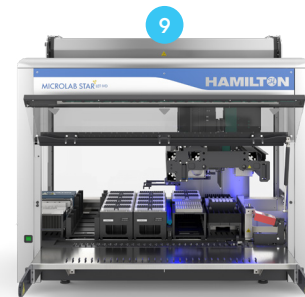
The workspace on the Clinical NGS STARlet is equipped with all modules and devices required for an automated library preparation workflow. The On-Deck Thermal Cycler (ODTC) instrument, together with the Hamilton PCR ComfortLid, reduces

hands-on time and ensures precise and uniform incubation steps.

The Barcode Reader traces samples and reagents but also ensures correct labware and tips placement on-deck.

Additionally, iSWAP® and CO-RE® Gripper for plate transport steps, a Magentic Stand, as well as a Hamilton Heater Shaker™ (HHS) and CPAC for temperature-controlled workflow steps complete the workstation.

The Clinical NGS STARlet has an optional UV Light for deck decontamination. The compact footprint of the Clinical NGS STARlet is optimized for automated NGS workflows and it saves space in your lab.



- 1 INHECO ODTC (On-Deck Thermal Cycler)
- 2 Hamilton PCR ComfortLid
- 3 Hamilton Heater Shaker™ (HHS)
- 4 Magnetic Stand (Thermo Fisher-Ambion)
- 5 INHECO CPAC
- 6 Hamilton iSWAP®
- 7 Hamilton CO-RE® Gripper
- 8 Hamilton Barcode Reader
- 9 Hamilton UV Light, optional

- Based on an ML® STARlet for small-to-mid-size throughput (24-sample processing)
- Barcode Reader for traceability of samples and reagents
- UV Light for deck decontamination
- Integrated On-Deck Thermal Cycler with automation-friendly PCR ComfortLid
- Qualified methods for time-efficient workflow implementation

Specification

Physical Dimensions

Description	Measurement
Length	79.5 cm
Width	112.4 cm
Height Microlab® STARlet	90.3 cm
Height including UV Light	110 cm approx.
Weight	170 kg approx.

Pipetting Volumes

Tip Size	Precision CV (%)
50 µL	1 µL Volume ([R] 5%; CV 4%)
300 µL	50 µL Volume ([R] 2%; CV 0.75%)
1000 µL	100 µL Volume ([R] 2%; CV 0.75%)

Pipetting Channels

Description
CO-RE® Technology
Independent Channels
Capacitive Liquid Level Detection (cLLD)
Pressure Liquid Level Detection (pLLD)
Tip Type Detection

System Specification

Description
+15 - +35°C
Humidity: 15%-85% with no condensation
Altitude: 0-2000 m above sea level

Ordering Configurations

Description	Part Number
Clinical NGS STARlet (ML® STARlet IVD-D, 4 Independent Channels) + iSWAP® + ODTc + UV	806611
Clinical NGS STARlet (ML® STARlet IVD-D, 4 Independent Channels) + iSWAP® + ODTc	806610

Required Consumables

Labware	Manufacturer	Part Number
Hamilton 50 µL Filter Tips	Hamilton Bonaduz AG	235948
Hamilton 300 µL Filter Tips	Hamilton Bonaduz AG	235903
Hamilton 1000 µL Filter Tips	Hamilton Bonaduz AG	235905
Biohazard Waste Bags	Hamilton Bonaduz AG	53686-01
PCR ComfortLid	Hamilton Bonaduz AG	814300
Reagent Troughs 60 mL	Hamilton Bonaduz AG	56694-01
MagNA Pure LC Medium Reagent Tubs 20	Roche	03004058001
MIDI (0.8 mL) 96 Well Plates	Thermo Fisher Scientific™	AB-0859
HSP (PCR) 96 Well Plates	Bio-Rad	HSP-9601

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