

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 the 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-library 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 of the Clinical NGS STARlet is equipped with all modules and devices required for an automated library preparation workflow.

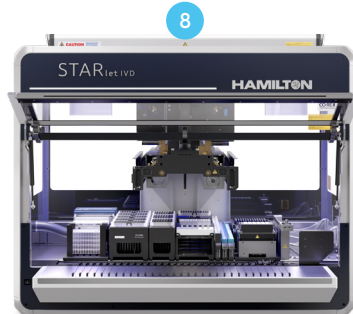
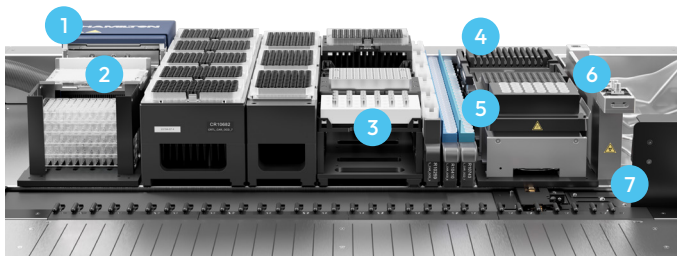
The On-Deck Thermal Cycler (ODTC), together with the Hamilton PCR ComfortLid, reduces hands-on time

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 CO-RE® Gripper for plate transport steps, a Magnetic Stand, as well as Hamilton Heater Shakers™ (HHSs) and Cooling Modules (CPACs) 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) | 5 SBS Cooling Positions (CPAC) |
| 2 Hamilton PCR ComfortLid | 6 CO-RE-Gripper for Plate Transport |
| 3 Magnetic Stand (Thermo Fisher-Ambion) | 7 Autoload with 1D/2D Barcode Reader |
| 4 Hamilton Heater Shakers™ (HHS) | 8 Hamilton UV Light, optional |

- Based on a Microlab® STARlet IVD 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

Specifications

Physical Dimensions

Description	Measurement
Depth	78.4 cm (101.1 cm with Autoload)
Width	112.7 cm
Height	90.5 cm
Height including UV Light	110 cm approx.
Weight	170 kg approx.

Pipetting Volumes

Tip Size	Precision CV (%)
50 µL	10 µL Volume ([R] 10%; CV 5.0%)
300 µL	50 µL Volume ([R] 5%; CV 2.5%)
1000 µL	100 µL Volume ([R] 5%, CV 2.0%)

Ordering Configurations

Instrument	Description
Clinical NGS STARlet	ML STARlet IVD with 8 independent channels, 2 HHSs, 2 CPACs and ODTC
Clinical NGS STARlet UV	ML STARlet IVD with 8 independent channels, 2 HHSs, 2 CPACs, ODTC and UV Light

Pipetting Channels

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

Operating Conditions

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

Required Consumables

Labware	Manufacturer
Hamilton 50 µL Filter Tips	Hamilton Bonaduz AG
Hamilton 300 µL Filter Tips	Hamilton Bonaduz AG
Hamilton 1000 µL Filter Tips	Hamilton Bonaduz AG
Biohazard Waste Bags	Hamilton Bonaduz AG
PCR ComfortLid	Hamilton Bonaduz AG
Reagent Troughs 60 mL	Hamilton Bonaduz AG
20 mL Reagent Trough white	Hamilton Bonaduz AG
Deep Well Plate PP 0.8 mL Barcode	Hamilton Bonaduz AG
Hard-Shell 96-Well PCR Plate (HSP)	Hamilton Bonaduz AG

Throughout this document, protected product names may be used without being specifically marked as such.
For In vitro diagnostic use. All rights reserved. All other trademarks are the sole property of their respective owners.
© 2026 Hamilton Company. All rights reserved. All trademarks are owned and/or registered by Hamilton Company in the U.S. and/or other countries. Lit. No. F-2511-07 – 03/2026

HAMILTON

To find a representative in your area,
please visit:

hamiltoncompany.com/contact
infoservice@hamiltonrobotics.com

United States
+1-775-858-3000
United Kingdom, Ireland
+44 121 272 92 80
Brazil
+55 11 95914 5000
China
+86 21 6164 6567

**Denmark, Norway,
Sweden, Finland**
+46 8410 27 373
France
+33 184 008 420
**Germany, Austria,
Switzerland**
+49 89 248 804 804

Benelux
+31 40 209 178 0
Italy
+39 039 930 06 06
Japan
+81 3 6435 6850
Spain, Portugal
+34 930 186 262

