

NGS STARlet

NGS Library Preparation in our New Design



Safety

Traceability of samples and reagents



Convenience

Minimal hands-on time for almost any NGS library preparation workflow



Efficiency

Automated library preparation for high priority samples or smaller sample throughput

Compact Efficient Automation

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

The workspace on the NGS STARlet is equipped with all modules and devices required for an automated library preparation workflow. The On-Deck Thermal Cycler instrument, together with the Hamilton PCR ComfortLid, reduces hands-on time and ensures precise and uniform incubation steps. Additionally, a Magnetic Stand, as well as two Hamilton Heater Shaker (HHS) and two SBS cooling positions (CPACs) for temperature-controlled workflow steps, complete the workstation.



- Based on a ML STARlet for high priority samples (24-sample processing)
- Barcode Reader for traceability of samples and reagents
- UV Light for deck decontamination
- Qualified methods for time-efficient workflow implementation

Specifications

Physical Dimensions

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

System Specification

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

Pipetting Channels

Description

CO-RE® Technology
Independent Channels
capacitive Liquid Level Detection (cLLD)
pressure Liquid Level Detection (pLLD)
Tip Type Detection

Pipetting Channels

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%)

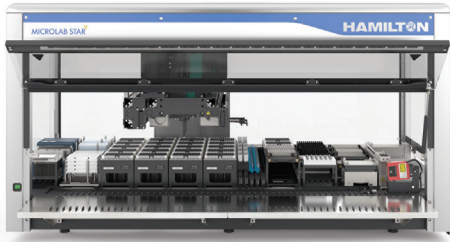
Configurations

Instrument	Description
NGS STARlet	ML STARlet with 8 independent channels, ODTC, 2 HHS, 2 CPACs
NGS STARlet UV	ML STARlet with 8 independent channels, ODTC, 2 HHS, 2 CPACs, UV Light

Required Consumables

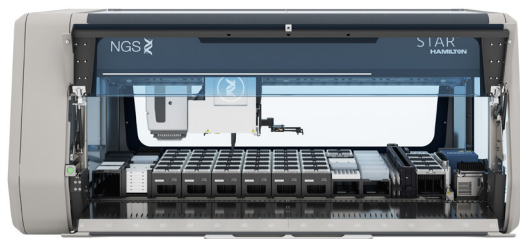
Labware	Part Number	Manufacturer
Hamilton 50 µL CO-RE Filter Tips	235948	Hamilton Bonaduz AG
Hamilton 300 µL CO-RE Filter Tips	235903	Hamilton Bonaduz AG
Hamilton 1000 µL CO-RE Filter Tips	235905	Hamilton Bonaduz AG
Biohazard waste bags	53686-01	Hamilton Bonaduz AG
PCR ComfortLid	814300	Hamilton Bonaduz AG
20 mL Reagent Reservoirs	96424-02	Hamilton Bonaduz AG
Reagent Troughs 60 mL	56694-01	Hamilton Bonaduz AG
MIDI (0.8 mL) 96-well plates	AB0859	Thermo Fisher Scientific
HSP (PCR) 96-well plates	HSP-9601	Bio-Rad

The Hamilton Genomics Squad



NGS STAR

- Tried and true performance for many years
- Proven design, including qualified methods from many kit providers
- Upgradable to higher throughput needs



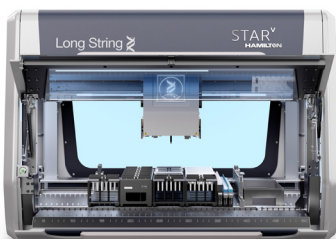
NGS STAR V

- Temperature control devices meet reagent and sample needs
- Maximum process reliability via intelligent safety lights
- High-throughput library preparation with respect to usability, reproducibility, traceability and safety needs



NIMBUS Presto

- More than 15 biologically-verified nucleic acid extraction protocols from leading kit vendors
- NOW available: Circulomics HMW DNA extraction application
- Configurable loading area for 96 samples



Long String STAR V

- Automated walk-away UHMW DNA extraction
- Optimal magnetic disk handling via Hamilton MagRod technology
- Scalable preparation of UHMW DNA for Bionano OGM for increased number of samples

© 2023 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-2002-04 (2023-03) – 03/2023

HAMILTON

To find a representative in your area,
please visit:

www.hamiltoncompany.com/contact
Email: 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

