

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 Shakers (HHS) and two SBS cooling positions (CPACs) for temperature-controlled workflow steps, complete the workstation.

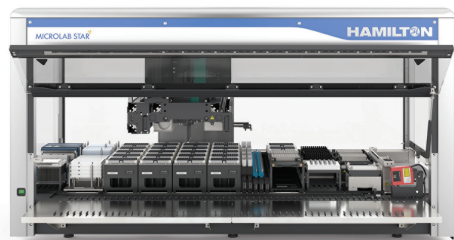


- Based on a ML STARlet for high priority samples (24-sample processing)
- Barcode Reader for traceability of samples and reagents
- UV Light for deck decontamination
- Qualified methods for time-efficient workflow implementation

Specifications

Physical Dimensions		System Specification	
Description	Measurement	Description	
Length	79.5 cm	Temperature	+15 - +35 °C
Width	112.4 cm	Humidity	15% - 85% with no condensation
Height	90.3 cm	Altitude	0 - 2000 m above sea level
Height including UV Light	110 cm approx.		
Weight	170 kg approx.		
Pipetting Channels		Pipetting Channels	
Description		Tip Size	Precision CV (%)
CO-RE® Technology		50 µL	1 µL Volume ([R] 5%; CV 4%)
Independent Channels		300 µL	50 µL Volume ([R] 2%; CV 0.75%)
capacitive Liquid Level Detection (cLLD)		1000 µL	100 µL Volume ([R] 2%; CV 0.75%)
pressure Liquid Level Detection (pLLD)			
Tip Type Detection			
Ordering Configurations			
Description		Part Number	
NGS STARlet (ML STARlet, 8 independent channels) + ODTc + 2 HHS + 2 CPACs		806610	
NGS STARlet UV (ML STARlet, 8 independent channels) + ODTc + 2 HHS + 2 CPACs + UV Light		806611	
Required Consumables			
Labware		Part Number	Manufacturer
Hamilton 50 µL filter tips		235948	Hamilton Bonaduz AG
Hamilton 300 µL filter tips		235903	Hamilton Bonaduz AG
Hamilton 1000 µL filter tips		235905	Hamilton Bonaduz AG
Biohazard waste bags		53686-01	Hamilton Bonaduz AG
PCR ComfortLid		814300	814300
MagNA Pure LC Medium Reagent Tubs 20		03004058001	Roche
Reagent Troughs 60ml		56694-01	Hamilton Bonaduz AG
MIDI (0.8 ml) 96-well plates		AB-0859	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 on-deck thermal cycling and higher throughput needs



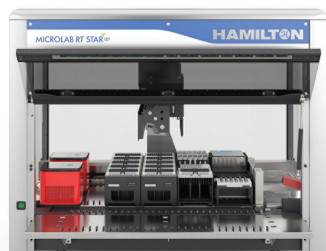
NGS VANTAGE

- 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



RT STARlet

- Manages different qPCR and nucleic acid extraction kits
- Fast sample-to-result in one integrated system
- Magnetic Induction Cycler (MIC4Hamilton) makes your workflow more efficient

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