

Genomic STARlet

Standard Solutions

High quality nucleic acids



HAMILTON

Standardization

With proven MACHEREY-NAGEL kits

High quality nucleic acids are a key for downstream applications like genotyping, sequencing and real-time PCR analysis. Together with MACHEREY-NAGEL, we have verified all processes to reach minimal variation and maximal standardization. Features like Monitored Air Displacement technology and clot detection offer a high process safety. An intuitive graphical user interface and a real-time status window provide a comprehensive control over all processes. The software is easy to use and you can easily choose your kit and sample type. Each run is summarized in a report file giving full traceability. You can trust the Genomic STARlet.

Technology

State of the art pipetting:

- ▶ Real-time clot detection
- ▶ No aerosols due to the forceless tip pick-up and ejection technology (CO-RE)
- ▶ Minimization of contamination risks due to features like the unique Anti Droplet Control (ADC)

Reliable Sample Processing:

- ▶ Save space with the integrated small footprint vacuum system
- ▶ Safe shaking and incubation provided by the on-deck integrated heater shaker with active plate lock
- ▶ Fast and convenient transports on deck with the CO-RE Gripper



Application packages

Proven silica-based technology from MACHERY-NAGEL:

- Classic Life Science: NucleoSpin® 8/96 Plasmid, NucleoSpin® 8/96 PCR Clean-Up, NucleoFast® 96 PCR
- Gene Expression Profiling: NucleoSpin® 8/96 Virus, NucleoSpin® 8/96 RNA
- Genomics: NucleoSpin® 8/96 Blood, NucleoSpin® 8/96 Tissue, NucleoSpin® 8/96 Plant II



8 different
kits

Specifications

System:

Intended use	Nucleic acid extraction, isolation and purification from biological samples and PCR products in a non IVD environment			
System dimensions	Width: 1124mm, height: 945.5mm, depth: 795mm (Autoload: 1006mm)			
Weight	150kg			
PC (included)	Intel Core 2 Duo E8400 (3GHz,1333MHz,6MB), 2048 MB RAM, 2x250GB harddisk RAID 1, Microsoft Windows XP Professional, 6 USB and 2 RS232 circuit points; or better			
Communication	Pipetting Unit: USB / Data transfer: Peer-to-Peer connection			
Operating data	Voltage	Frequency	Operating environment	Altitude
	115V~ / 230V~	50Hz / 60Hz	15 - 30°C, relative humidity 30 to 85% with no condensation	< 2000m

Pipetting unit:

Work area dimensions	Width: 675mm, height: 140mm, depth: 465mm			
Pipetting arm	4 or 8 independently controlled air displacement channels			
Positional accuracy	X-Y-Z positional accuracy of 0.1mm			
Tip Sizes	Standard volume: 300µl, high volume: 1000µl			
Liquid Level Detection	Capacitive liquid level detection (cLLD) and pressure (pLLD) on aspiration, cLLD on dispense, minimum volume 10µl, depending on container type			
Capacity	Up to 96 samples can be loaded in tubes or plates			
Throughput	96 samples are processed in ~120min. Depending on protocol			
Accessories	Tip carrier holding up to 480 tips. Reagent carriers for 50mL and 150mL troughs. Tube carriers holding up to 32 tubes each. Deep Well Plate carrier. HAMILTON Heater Shaker (HHS). CVS Manifold and Vacuumsystem (including Vacuubrand vacuum pump)			
Products	1000µl channels	Manual load	Autoload	Application package
GenSTARlet_4ML_ClaLifeSci	4	x		Classic Life Science
GenSTARlet_4ML_GeneExpProf	4	x		Gene Expression Profiling
GenSTARlet_4ML_Genomics	4	x		Genomics
GenSTARlet_8ML_ClaLifeSci	8	x		Classic Life Science
GenSTARlet_8ML_GeneExpProf	8	x		Gene Expression Profiling
GenSTARlet_8ML_Genomics	8	x		Genomics
GenSTARlet_4AL_ClaLifeSci	4		x	Classic Life Science
GenSTARlet_4AL_GeneExpProf	4		x	Gene Expression Profiling
GenSTARlet_4AL_Genomics	4		x	Genomics
GenSTARlet_8AL_ClaLifeSci	8		x	Classic Life Science
GenSTARlet_8AL_GeneExpProf	8		x	Gene Expression Profiling
GenSTARlet_8AL_Genomics	8		x	Genomics

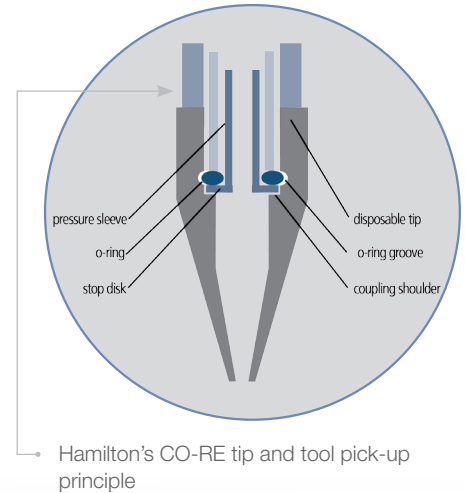
Disclaimer: the Genomic STARlet system is classified as a product for general laboratory use and not as an IVD device defined by EU directive 98/79/EC ("in vitro diagnostics"). The system components are conform with EU directives 2004/108/EC ("EMC"), 2006/95/EC ("low voltage") and Canada&USA directive CAN/CSA-C22.2 (Safety Requirements for Electrical Equipment).

Flexibility

Get an all-rounder

The Genomic STARlet is an all-rounder: it can handle different input samples such as blood, tissue and cells. More than half a dozen nucleic acid extraction kits have been tested on the system. Standard sample input and output labware from MACHEREY-NAGEL is already predefined. It can be selected when a run is started. The processes are optimized to save time and minimize tip consumption. Depending on the kit, 96 samples can be processed in 60-144 minutes. Several runs can be performed every day.

- ▶ Proven nucleic acid quality with MACHEREY-NAGEL kits
- ▶ Verified protocols on the Genomic STARlet
- ▶ Easy to use software: with the intuitive user interface you can easily choose your kit and sample type - effortlessly switch protocols
- ▶ Extract nucleic acids from samples such as bacterial and eucaryotic cells, tissue, blood, plants and others
- ▶ Process flexible batches from 8 to 96 samples
- ▶ Run up to eight kits on the same system





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Lit. No. B-1110-03 — 01/2012 QTY: 500 , 03/12 Printed in Germany.

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