

HAMILTON 

VeriSeq™ NIPT Microlab® STAR™





Fast. Simple. Confident.



Fully automated, sample preparation solution



Sample Tracking



Simple to run



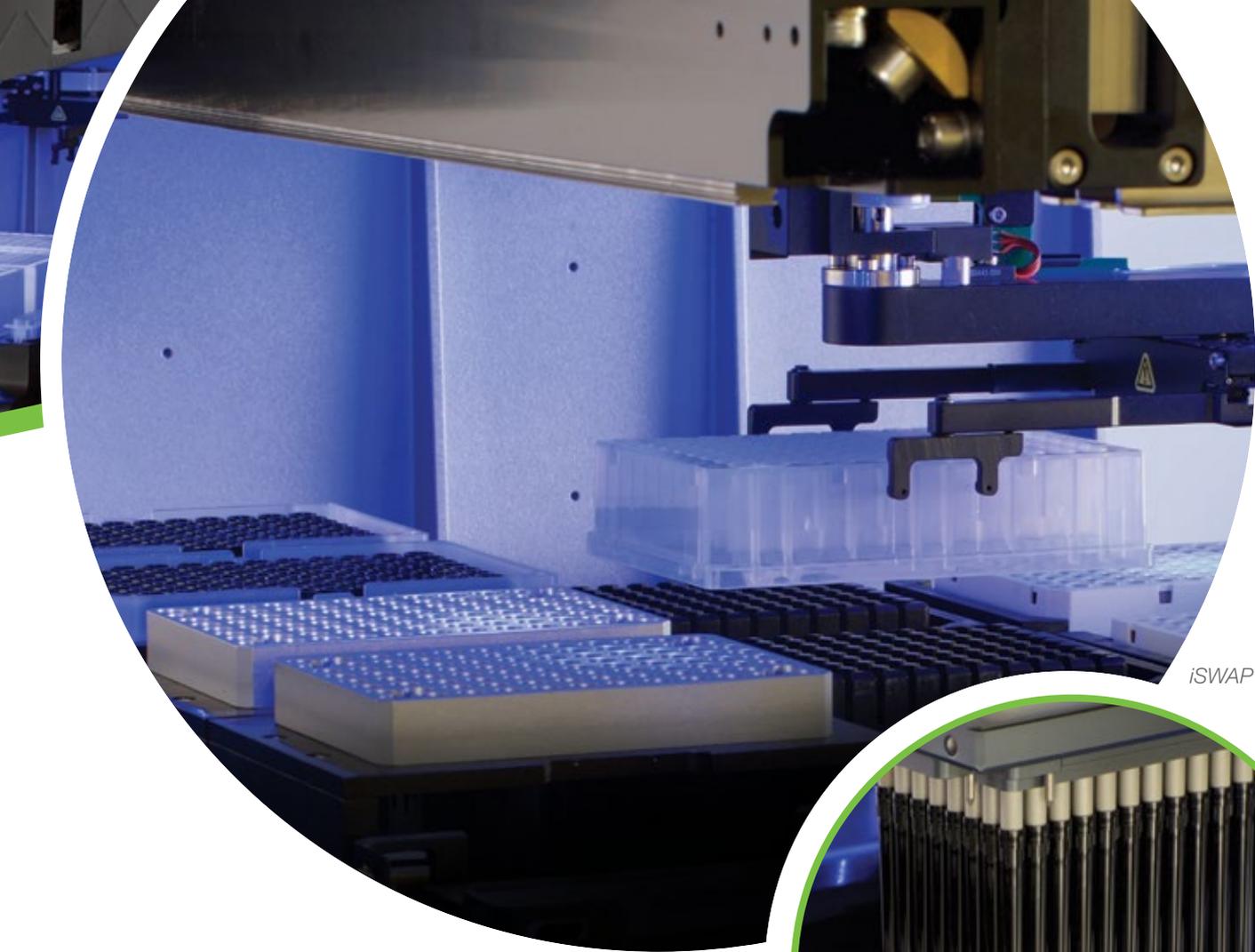
48 or 96 samples per batch



PCR-free workflow

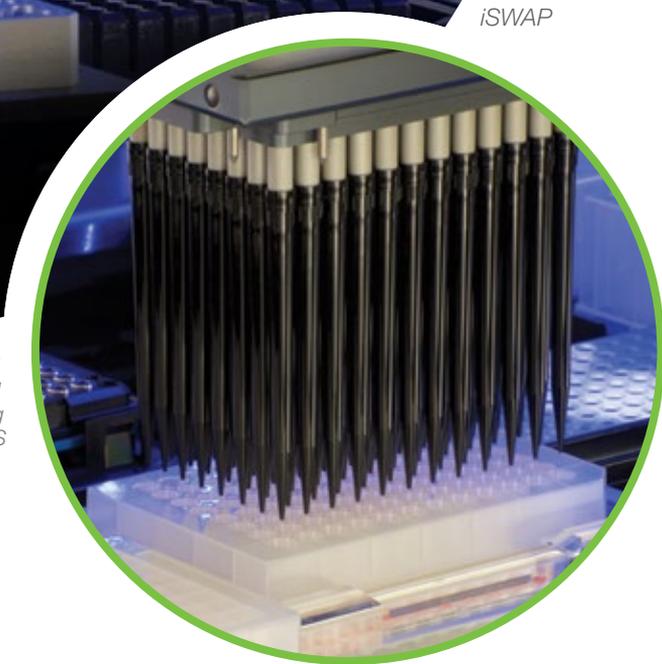
Hamilton Robotics and Illumina, Inc. have collaborated to provide an automated solution for clinical labs and healthcare systems who are performing clinical prenatal aneuploidy screening. The VeriSeq NIPT Solution combines the Hamilton Microlab STAR with Illumina's proven NGS technology and software to make an automated and reliable solution for in-house NGS-based NIPT that can screen for specific chromosomal abnormalities. With instrument, software, and reagents incorporated into the VeriSeq NIPT Solution, a single technician can prepare and analyze up to 96 samples in a single day.

The VeriSeq NIPT Microlab STAR is configured and optimized for use in the VeriSeq NIPT workflow. Plasma isolation from whole blood, cfDNA extraction, and PCR-free library preparation are all automated on the system. The automated protocol includes creation of quantification plates, library quantification, and library pooling. The PCR-free protocol decreases the risks of error associated with amplification procedures, reduces the time required for sample preparation, and greatly simplifies the workflow. A single technician can prepare 48 – 96 samples in < 8 hours with minimal hands-on time.



iSWAP

CO-RE
96 MPH
pipetting
on CVS



Plasma Isolation



cfDNA Extraction



Library Preparation



Library Quantification



Pooling and
Normalization

Workflow

Specifications

STAR



Height:
35.5 in
903 mm



Depth:
31.2 in
795 mm

Width:
65.5 in
1664 mm

Technical Specifications

2	Instrument W x H x D	65.5 in (1664 mm, 1990 mm with multiprobe head) x 35.5 in (903 mm) x 31.2 in (795 mm) autoload: 39.6 in (1006 mm)
	Work Area W x H x D	47.8 in (1215 mm) x 7.6 in (195 mm) x 18.3 in (465 mm)
3	Weight — 96 Probe Head and 8 Individual Channels	160 kg
	Deck Capacity	54 tracks (T) / 45 SLAS ANSI positions
	Positional Accuracy	X-Y-Z positional accuracy of 0.1 mm

Pipetting Specifications for Disposable Tips*

Individual Channels				CO-RE 96 Probe Head			
Tip Size	Volume	Precision	Trueness	Tip Size	Volume	Precision	Trueness
10 µL	0.5 µL	6.0%	10.0%	10 µL	1 µL	5.0%	5.0%
10 µL	10 µL	1.0%	1.5%	10 µL	5 µL	2.0%	2.5%
50 µL	1 µL	4.0%	5.0%	50 µL	5 µL	2.0%	2.5%
50 µL	50 µL	0.75%	2.0%	50 µL	50 µL	1.0%	1.5%
300 µL	200 µL	0.75%	1.0%	300 µL	50 µL	1.0%	1.5%
1000 µL	1000 µL	0.75%	1.0%	1000 µL	1000 µL	1.0%	1.0%
5000 µL	5000 µL	1.5%	2.0%				

* Test criteria available upon request

VeriSeq NIPT Microlab STAR Configuration

1	8 Independent Pipetting Channels
	CO-RE 96 Multi-Probe Head (MPH)
5	Autoload — automatic carrier loading and barcode scanning
	iSWAP® — gripper arm for labware transportation
1	Clear, On-Deck Vacuum Station (CVS)
	VeriSeq NIPT Workflow Manager software

For In Vitro Diagnostic Use. Not available in all countries or regions.

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 Lit. No. BR0027 v1.0 — 04/2017



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