



Transform Your NGS Workflow with Walkaway Automation

The Agilent Magnis NGS prep system is a compact, benchtop platform providing an automated, completely walkaway next-generation sequencing (NGS) library preparation and target enrichment solution. Requiring minimal staff and expertise to run, the instrument self-detects and tunes, and includes pre-aliquoted reagents and pre-set protocols for a simple, streamlined workflow to run complex NGS assays for various sample types.

Key Attributes of the Magnis NGS Prep System

Walkaway automation

- Reduce hands-on time from 2.5 hours to only 10 to 15 minutes through complete walkaway automation with output sample temperatures controlled for up to 72 hours

Fast turnaround time (TAT)

- Produce eight sequencing-ready libraries in under 9 hours ensuring essential clinical sample processing TATs are met
- Benefit from no sample batching requirements, for critical results generation without needing to wait for additional samples
- Experience short run times and retain samples in house, for fastest time to answer and without worry of restriction on sending patient samples

Efficient ease of use

- Easily set up runs with validated, ready-to-use protocols preoptimized with Magnis SureSelect reagents
- Simplify inventory management with pre-aliquoted reagents to eliminate waste and reduce costs

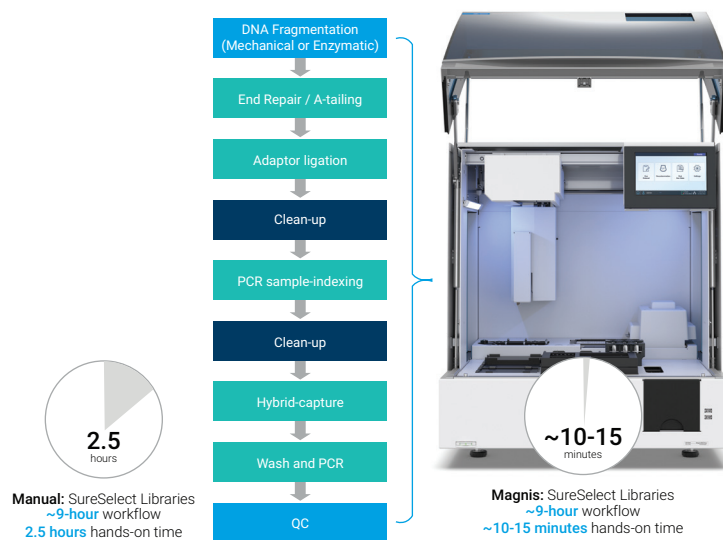


Figure 1. The Agilent Magnis system fully automates NGS library preparation, all in a compact footprint to save valuable lab space.



Key attributes of the Magnis XT HS2 DNA and RNA reagent kits



Ease of use

Fully automated, walkaway workflow starting from total RNA with integrated cDNA conversion or unfragmented DNA with onboard enzymatic fragmentation for increased workflow efficiency



Library quality

High-quality data with dual sample indexes that minimize index hopping from sequencing data and accurate variant calling with dual molecular barcodes, for confident results



NGS application versatility

Flexible use for various NGS applications such as DNA-Seq and RNA-Seq with both custom and catalog panel options, for workflow adaptability



Cost efficiency

Increased downstream sequencing pooling capacity with 192 dual sample indexes that maximize throughput, to reduce sequencing costs

Precision SureSelect DNA and RNA Reagents

Harnessing precision liquid handling technology combined with optimized protocols and prepackaged, barcoded SureSelect reagents, the Magnis system simplifies the generation of targeted NGS libraries compatible with Illumina sequencing platforms and minimizes required training. This plug-and-play system eliminates the need for process development, while easy customization of SureSelect panels allows you to focus on regions of interest for reduced sequencing costs and simplified analysis.

Magnis SureSelect XT HS2 Reagents

Built on proven SureSelect XT HS2 chemistry, the Agilent Magnis SureSelect XT HS2 DNA and RNA reagent kits are an advanced targeted DNA and RNA sequencing library preparation and target enrichment solution, from small-sized panel to whole exome.

Magnis SureSelect XT HS Reagents

Also available for the Magnis NGS prep system are the Agilent Magnis SureSelect XT HS reagents for labs with medium- to low-throughput sequencers like the NextSeq 550 and MiSeq from Illumina.

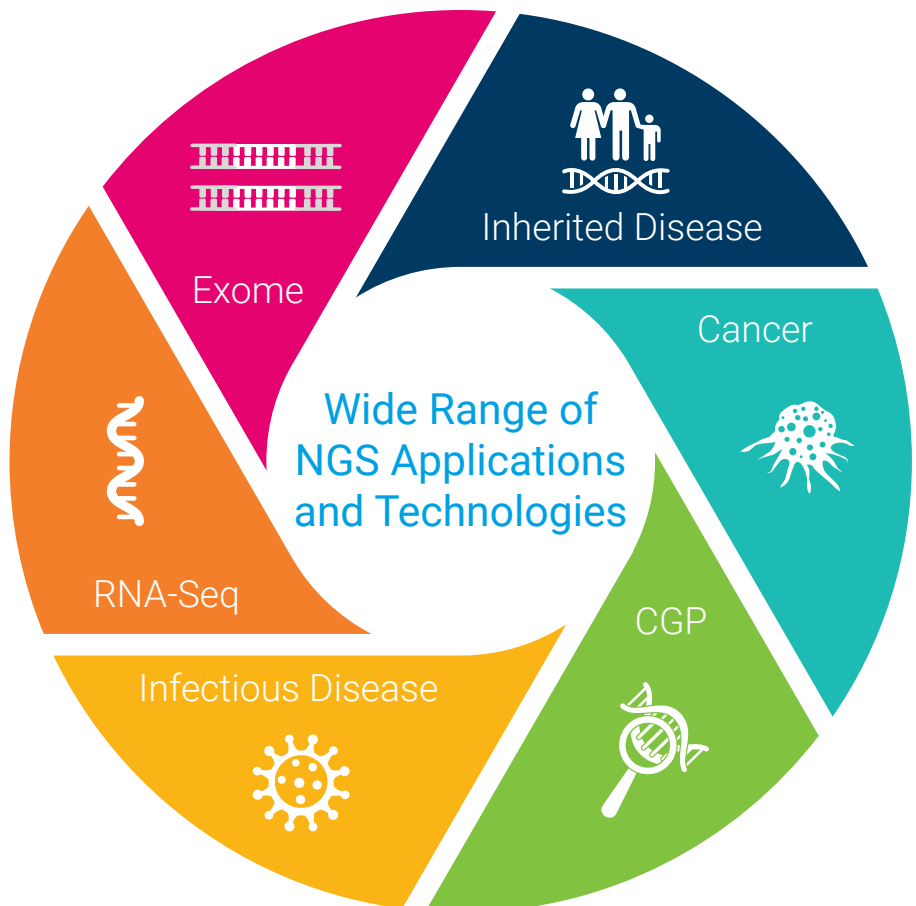


Figure 2. The Agilent Magnis system fully automates NGS library preparation, all in a compact footprint to save valuable lab space.



Purchase Options

Agilent's Reagent Rental Program offers a flexible, alternative way to access the latest NGS automation platform. For higher volume users with a routine reagent consumption, speak with your local account manager.



Agilent CrossLab Services

For dependable lab operations, Agilent CrossLab Services help minimize workflow disruptions and optimize lab productivity. You get comprehensive instrument maintenance coverage and IQ/OQ services in a convenient plan fit for your lab.

A Flexible, NGS Workflow Solution

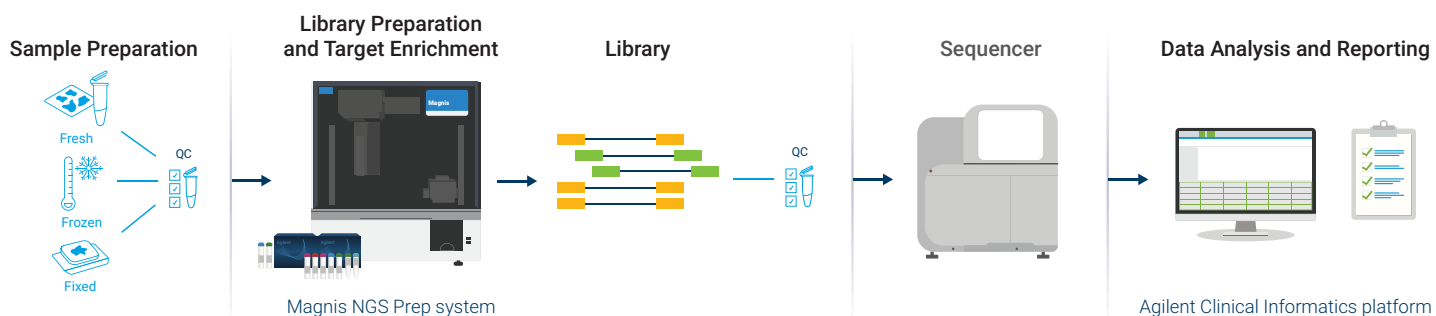


Figure 3. Complete, integrated NGS workflow that takes you through sample QC, library preparation, target enrichment, and data analysis and reporting.

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