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Nucleic Acid Purification - QualiNAP™ 96



STANDARDS

CLSI MM13

ISO 15189

ISO 18385

ISO 20186

Nucleic Acid Purification - QualiNAP™ 96

Nucleic Acid Purification is the core workflow of QualiNAP™ 96, a high-throughput automated extractor built to purify DNA and RNA from many sample types with minimal hands-on steps. The system uses a magnetic-rod workflow to move bead-bound nucleic acids through lysis, binding, wash, and elution steps inside a deep-well plate format.

It supports 96 or 24 samples per run, plus both standard and large-volume processing, which fits routine molecular testing and batch research workflows.

QualiNAP™ 96 is designed for labs that need fast batch extraction with consistent well-to-well performance. The platform is positioned as an upgraded, higher-capacity system in the same family as smaller instruments, with an emphasis on throughput and automation for clinical gene analysis demand.

It supports purification from sources such as whole blood, virus samples, tissue, plants, bacteria, and cultured cells when paired with the correct reagent kits. A color touchscreen interface and stored programs help standardize extraction steps across operators and shifts.

APPLICATIONS

Nucleic Acid Purification - QualiNAP™ 96 Applications

High-throughput clinical gene testing workflows

Process large batches for molecular diagnostics where consistent timing and reduced manual steps matter. A 96-sample run helps keep turnaround predictable during peak volume.

Viral nucleic acid extraction

Purify viral DNA or RNA from clinical or research samples using compatible magnetic-bead kits. Automated extraction supports repeatable downstream amplification and detection workflows.

Multi-matrix research extraction

Run extraction from diverse matrices such as tissue, plants, bacteria, and cultured cells without changing the core automation concept. Stored programs support method consistency when different teams use the same instrument.

Large-volume sample processing

Handle higher input volumes when your protocol needs larger sample loads or concentrated eluates. The large-volume range supports workflows beyond standard microplate volumes.



Standards

- ISO 20186 series: Pre-examination guidance for molecular IVD specimens, including handling, storage, processing, documentation, and the impact of isolation steps on results.
- ISO 15189: Requirements for quality and competence in medical laboratories, often used to frame method control and documentation practices.
- CLSI MM13: Guidance covering specimen collection, transport, storage, and nucleic acid isolation principles for molecular methods. QualiNAP™
- ISO 18385 (for forensic workflows): Requirements to minimize risk of detectable human DNA contamination in products used for forensic DNA processes.

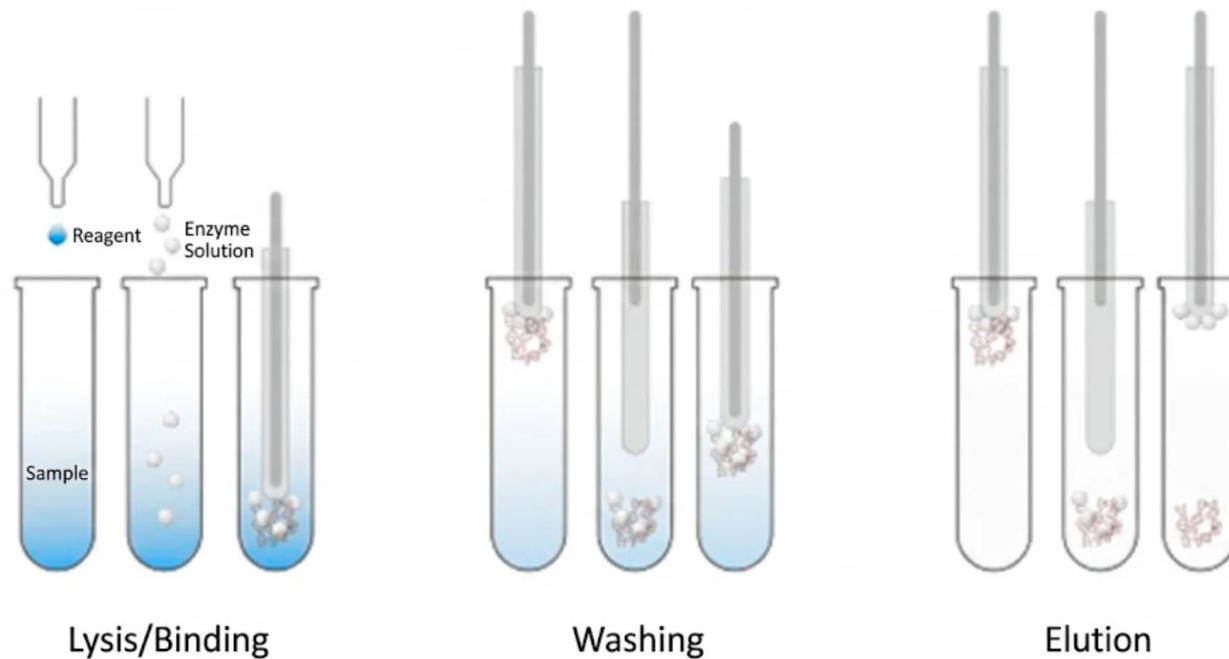
FEATURES

Nucleic Acid Purification - QualiNAP™ 96 Key Features

- 96 or 24 sample throughput to match daily batch volume and workflow priorities.
- Fast run time with typical processing stated at 20–40 minutes, depending on kit and method.
- Wide processing volume options supporting 20–1000 µL and 100–5000 µL workflows.
- High bead recovery performance listed at >99% to support strong yield consistency.
- High-strength permanent magnetic column listed at >4800 GS for stable bead capture.
- Program control and storage with 12 preset programs and storage listed as ≥100 sets.
- Reduced manual involvement designed to lower sample-to-sample variation during batch processing.
- Modular approach supporting different channel configurations and customization options on consumables based on workflow needs.

THEORY & METHOD

Theory and Method



QualiNAP™ 96 uses a magnetic-rod process with magnetic beads to capture nucleic acids during extraction. After lysis, target DNA or RNA binds to functionalized beads. The instrument moves the bead-bound targets through different reagent wells, then mixes by repeatedly moving the rod sleeve to improve contact and wash efficiency. Wash steps remove inhibitors, and the final elution releases purified nucleic acids into buffer for downstream PCR, RT-PCR, or sequencing preparation.

TECHNICAL SPECIFICATIONS

Nucleic Acid Purification - QualiNAP™ 96 Technical Specification

Specification	QualiNAP™ 96
Sample throughput	96 / 24
Processing volume	20-1000 µL / 100-5000 µL
Extraction method	Magnetic rod principle with bead transfer
Processing time	20-40 minutes
Magnetic bead recovery rate	>99%
Permanent magnetic column	>4800 GS
Interface	Color touchscreen
Program storage	≥100 sets; 12 preset programs
Sample types supported (with kits)	Whole blood, virus, tissue, plant, bacteria, cultured cells

Nucleic Acid Type	Reagent Kit Classification	Specification	Sample Type
Viral Nucleic Acid	Viral DNA/RNA Purification Kit	32T, 48T, 96T	Serum, plasma, lymph, cell-free body fluids, cell culture supernatant, urine, tissue, swabs, or various viral transport media
gDNA	Whole Blood Genomic DNA Purification Kit	32T, 48T, 96T	Mammalian, avian, and amphibian whole blood (EDTA, Heparin, etc.)
	Dried Blood Spot Genomic DNA Extraction Kit	32T, 48T, 96T	Dried blood spots
	Animal Tissue Genomic DNA Kit	32T, 48T, 96T	Liver, kidney, brain, tail, muscle tissue, etc.
	Plant Tissue Genomic DNA Extraction Kit	32T, 48T, 96T	Roots, stems, flowers, leaves, fruits, etc.

Nucleic Acid Type	Reagent Kit Classification	Specification	Sample Type
Oral Swab Genomic DNA Extraction Kit	32T, 48T, 96T	Cotton swabs	
Saliva Genomic DNA Extraction Kit	32T, 48T, 96T	Saliva	
Stool Genomic DNA Extraction Kit	32T, 48T, 96T	Stool / Feces	
Bacterial Genomic DNA Extraction Kit	32T, 48T, 96T	Microorganisms, sputum, swab washes, blood, stool, etc.	
RNA	Animal Tissue RNA Kit	32T, 48T, 96T	Liver, kidney, brain, tail, muscle tissue, etc.
Plasmid DNA	Plasmid Extraction Kit	32T, 48T, 96T	Bacteria
Product Purification	Gel Recovery Kit	32T, 48T, 96T	Agarose gel electrophoresis samples
	PCR Product Purification Kit	32T, 48T, 96T	PCR amplification products
	Nucleic Acid Fragment Recovery Kit	32T, 48T, 96T	Fragmented nucleic acids



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