

# OptiSureHT 96

Cat. No: GXHT101-96Plus

## Smart DNA/RNA Extractor

1-96 samples

Stirring Mixing Magnetic Beads Technology

Maximize Throughput and Eliminate  
Cross-contamination



96 Magnetic Head

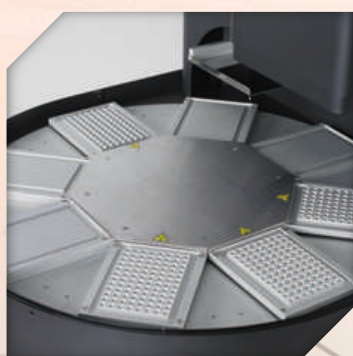


Plate Station



OptiSureHT96



## Patented OptiSureHT96 Spin Mixing Technology

OptiSureHT96 product embodies this novel technology and delivers improved performance for applications in molecular diagnostics and life sciences. OptiSureHT96 is CE & IVD approved,



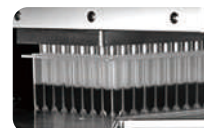
### Fully Automated

- ❖ Simultaneous processing and purification of DNA, RNA samples
- ❖ Automation of complicated manual steps
- ❖ Independent temperature control modules ensure stability of purification performance



### Patented Whirl Stirring Mixing Magnetic Beads Technology

- ❖ Processing volume up to 1,600µl
- ❖ Spin tips stir magnetic beads at speeds up to 3000 rpm
- ❖ Effective prevention of aerosol cross contamination



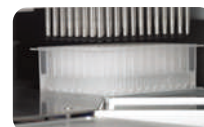
### Easy Operation

- ❖ Intuitive user interface and easy menu navigation
- ❖ Parameters can be fine-tuned based on experimental requirements
- ❖ Run pre-loaded or sample specific protocol



### Time Saving

- ❖ High-throughput: 96 samples can be processed simultaneously
- ❖ High stirring efficiency with variable speeds for considerable time savings

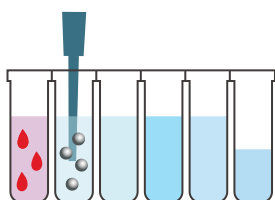


## Principle of Nucleic Acid Extraction

 Sample
  Bead
  DNA

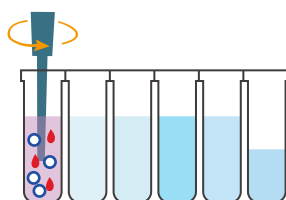
### Step 1

Activate beads



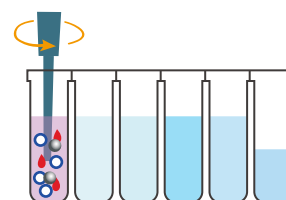
### Step 2

Mix sample with Lysis Buffer



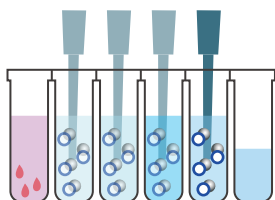
### Step 3

Mix sample with beads



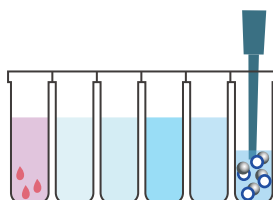
### Step 4

Wash bead-DNA from #2 ~ #5 well



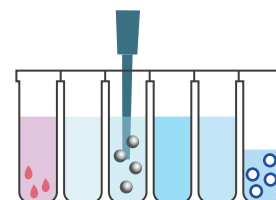
### Step 5

Elute DNA



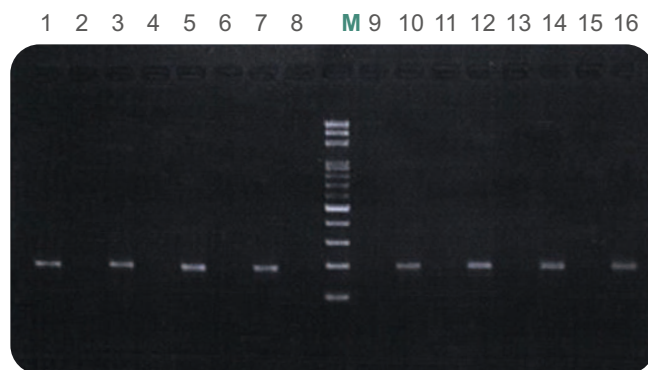
### Step 6

Release beads



## Performance

- ✓ The coefficient of variation of nucleic acid extraction concentration is less than 5%
- ✓ Recovery of RNA/DNA more than 92%
- ✓ High consistency
- ✓ No Cross-contamination to neighbor well  
Experimental results ▶



## Specification

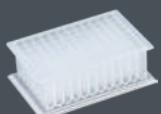
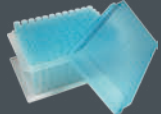
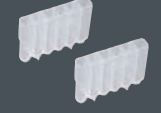
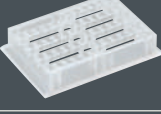

Model	OptiSureHT96
Samples per run	1-96 samples
Run Time	25~60 min
Processing volume	50µl - 1,600µl
Magnetic Rod	>3,000 gauss
Spin Speed	up to 3,000 rpm
Temperature Range	RT~130°C
Temp control	4 set
Heating Block	Yes (4 pcs)
Display	7" touch screen
UV Lamp	Yes
USB Port	Yes
Memory	Yes
Weight (NW)	130kg
Dimensions (WxDxH)	87x57.5x70cm
Power Supply	AC 220-240 V



## Patents Reagent kits

Sample	Target	Test	Kits Format
Blood	Total DNA	96	Auto Plate
Viral	Viral DNA / RNA	96	Auto Plate
Tissue	Total DNA	96	Auto Plate
Gram Bacteria	Bacteria Total DNA	96	Auto Plate

## Consumables

Images	Product Name	Format	Description
	96 deep well plate	Auto Plate	<ul style="list-style-type: none"> <li>❖ Processing volume 50µl-1,600µl</li> <li>❖ Widely use for molecular diagnostics</li> </ul>
	96-spin tips box	Auto Plate	<ul style="list-style-type: none"> <li>❖ 96 pcs of Medium(pen-shape) spin tips in one box</li> </ul>
	6 tube B	Auto Tube	<ul style="list-style-type: none"> <li>❖ Special Package for single or small number of tests</li> <li>❖ Minimal consumable waste</li> <li>❖ No reagent loss</li> </ul>
	16-Base B	Auto Tube	<ul style="list-style-type: none"> <li>❖ Incorporate with 6 tube B for small number of tests</li> </ul>
	Spin tips	Auto Plate Auto Tube	<ul style="list-style-type: none"> <li>❖ A unique design to maximum mixing efficiency</li> </ul>

