

## Automated System for Magnetic Bead-Based Purification



DNA

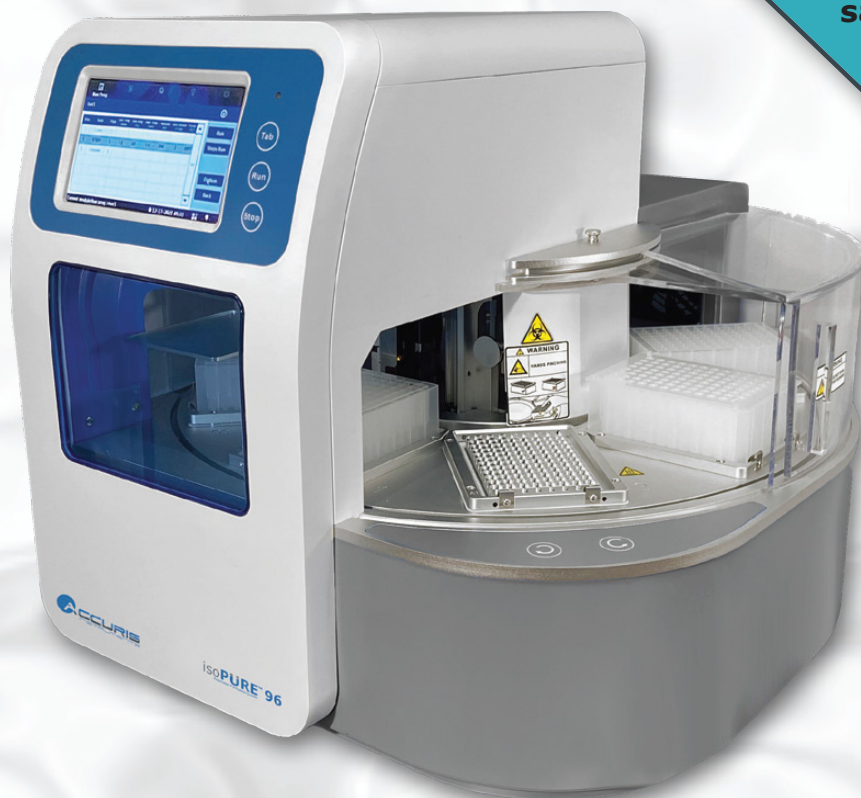


RNA



Protein

Hands off  
processing of  
up to 96  
samples



- *Compatible with all popular magnetic bead kits*
- *Touch screen panel for on-board programming & operation*
- *Process up to 96 samples in deep-well plates*
- *8-position carousel with 2 heating blocks*
- *Sample volume 50  $\mu$ L - 1000  $\mu$ L*

The **isoPURE™ 96** from Accuris Instruments is a high throughput, automated system that improves the efficiency and reproducibility of magnetic bead-based purification protocols. Capable of processing up to 96 samples at one time, the instrument is easy to set up and program. Mixing, magnetic bead transfer, washing, and elution steps are performed automatically. The purification process can be completed within 10 to 60 minutes depending on the type of reagent kit used and complexity of the program.



### Programming

The **isoPURE™ 96** can be programmed by using the color touch screen or the included mouse. After a protocol has been created, the instrument will calculate and display the estimated time for each step and the total time.

### Typical step settings include:

#### Tip Comb Loading and Unloading

Automate tip comb loading and unloading by designating the respective plate positions in the script.

#### Mixing

Parameters for mixing time, speed, and amplitude can be programmed for each step of the protocol.

#### Temperature Control

Heating of the sample mixture during the lysis and elution steps significantly improves the purity and yield of the target molecule. The **isoPURE™ 96** is equipped with 2 heating blocks on the plate carousel that can be precisely set to temperatures from ambient + 5°C to 120°C.

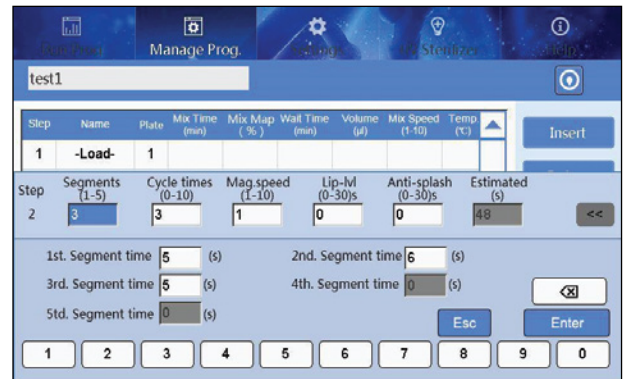
**isoPURE™ 96** deep well plates fit into the heating blocks for efficient heat transfer. Cooling fans can be set to maintain ambient operating temperature.

#### Bead Collection and Release

The complete collection of magnetic beads from sample mixtures is crucial for maximizing the yield of purified analytes. The **isoPURE™ 96** software offers full control of magnetic parameters to ensure cleaner extractions. Control of magnet speed, position, repeat collection cycles, and other settings guarantee consistent yields.

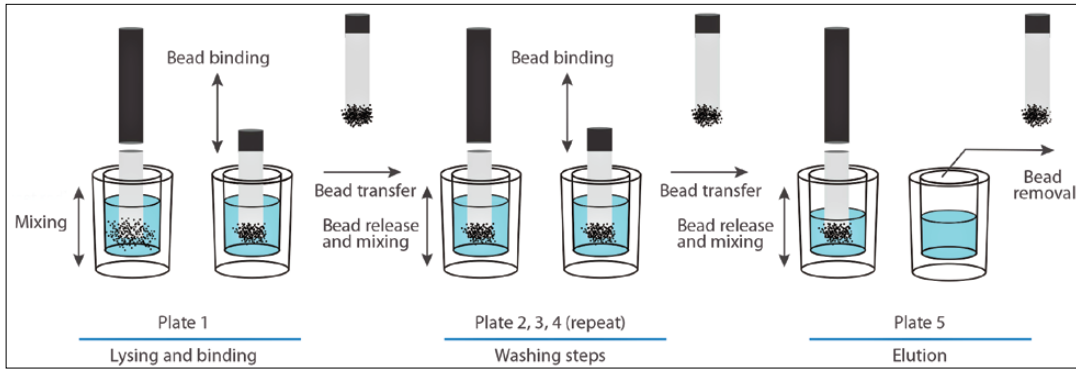


Mixing Parameters & Temperature Settings



Bead Collection Parameters





**Typical Purification Process**

## Protocol Optimization

Accuris™ Instruments has partnered with leading magnetic bead kit manufacturers to develop and optimize protocols for specific applications. To request protocols for specific kits, or for assistance in optimization, please contact your trusted MIDSCI Lab Consultant for **IsoPure™** Technical Support at tech@midsci.com.

## Built-in UV Sterilization

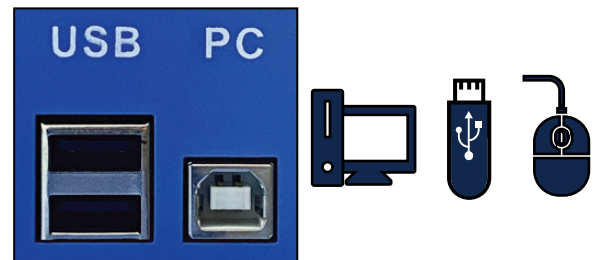
An ultraviolet sterilization lamp (UVC) inside the processing chamber provides effective elimination of most bacterial, viral, and stray genomic DNA contaminants. This additional safeguard reduces the possibility of unwanted DNA/RNA contamination that could be amplified downstream in a PCR detection assay. UV sterilization time can be adjusted based on specific program requirements to ensure a sterile environment prior to purification.



**UV Sterilization**

## Connection Ports

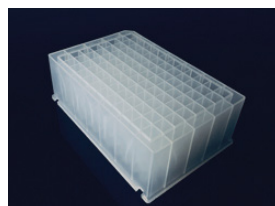
The **IsoPure™ 96** can store up to 100 program files which can be transferred between instruments, or to a computer for storage or sharing. Simply insert the included flash drive to export the selected files. Programming control can be done via the touch screen, or by using the included mouse. A PC can also be connected for remote programming.



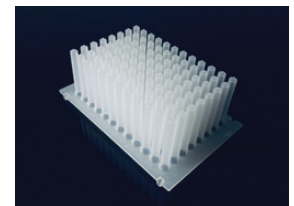
**Ports for Mouse, PC Connection, Storage & Transfer**

## IsoPure™ Consumables

Accuris offers high-quality deep well plates and magnetic tip combs designed to fit the IsoPure 96. Produced using virgin polypropylene and packaged in a sterile facility, these consumables are guaranteed to be contaminant-free. The **IsoPure™ 96** also accepts industry-standard 96 deep well plates and tip combs designed for high throughput purification systems.

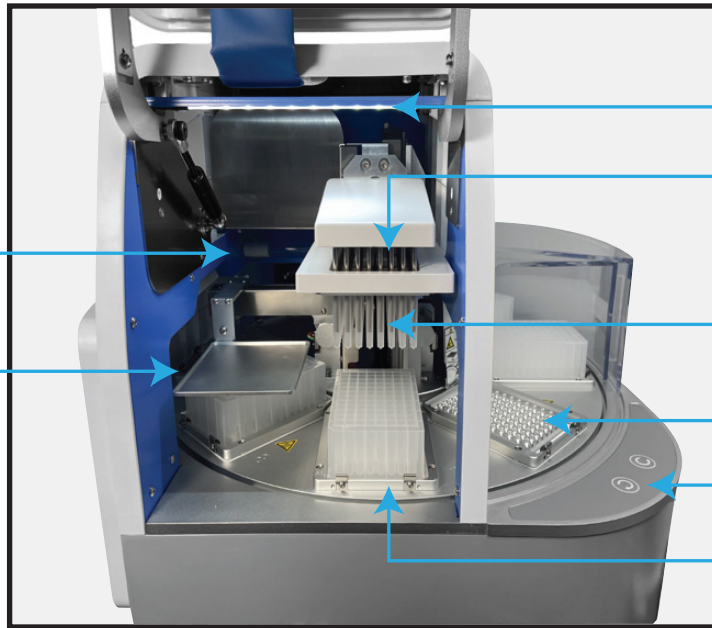


**Deep-Well Plate**  
Cat #: AP1096-DWP



**Tip Comb**  
Cat #: AP1096-TC





**UV Sterilization Lamp**

**Drip Tray**

**Internal LED Lighting**

**Magnetic Rods**

**Tip Comb**

**Heating Block**

**Carousel Rotation Keys**

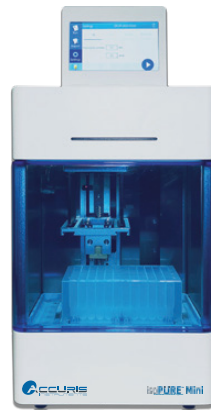
**Deep Well Plate**

**Instrument Overview**

**Specifications**

<b>Capacity / Sample Volume</b>	96 samples / 50 µL to 1000 µL
<b>Display</b>	7.0 inch-color touch screen
<b>Plate Positions</b>	8 plate positions
<b>Lysis Temperature Range</b>	Ambient +5°C to 120°C
<b>Elution Temperature Range</b>	Ambient +5°C to 120°C
<b>Mixing Speed</b>	Variable, 10 levels
<b>Programming Control</b>	Touch screen/mouse or PC connection
<b>Program Memory</b>	100 programs
<b>Communication Ports</b>	USB, LAN, & PC
<b>Magnetic Bead Recovery Rate</b>	>95%
<b>Internal Lighting</b>	LED
<b>Contamination Control</b>	UV sterilization, lamp included (3W, 253.7nm)
<b>Dimensions</b>	21.6 x 24.4 x 18.9 in. (55 x 62 x 48 cm)
<b>Weight</b>	54 kg / 119 lbs
<b>Electrical Input</b>	Universal 120 to 240 VAC
<b>Warranty</b>	2 years

**Also available from Accuris™ Instruments**



**IsoPure™ Mini**

- Process up to 16 samples
- Compact (8 x 10 in. footprint)
- Intuitive app programming
- Sample volume 50 µL - 1000 µL
- Fast, reliable, & reproducible results



**SmartReader™ UV-Vis**

- Intuitive 10 inch color touch screen control panel
- Accepts both 96 & 394-well plates
- Monochromator-based system
- Stand-alone design

**Ordering Information**

Item #	Description
<b>AP1096*</b>	IsoPure™ 96, Automated Purification System, 120V - 240V input
<b>AP1096-DWP</b>	96 deep well plates for IsoPure™, pack of 50
<b>AP1096-TC</b>	Tip Comb for IsoPure™ 96, pack of 50

\* Use part number AP1096-E to indicate 240V input and specify required plug type.