

Automated System for Magnetic Bead-Based Purification

Hands off
processing of
up to 96
samples



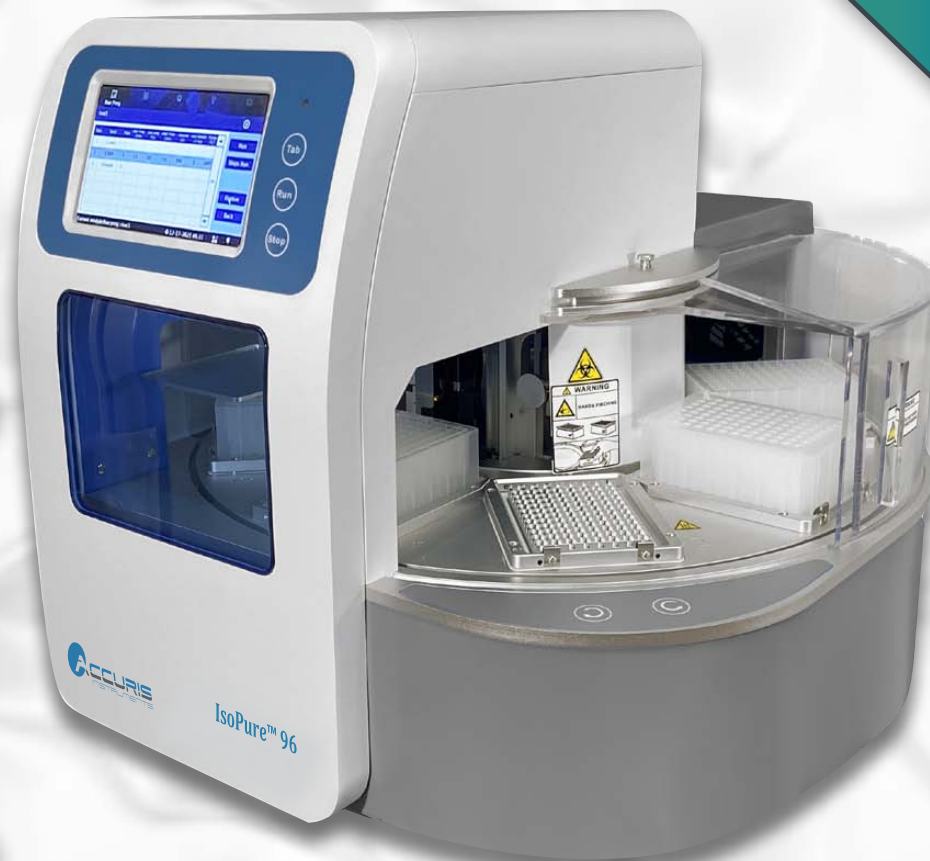
DNA



RNA

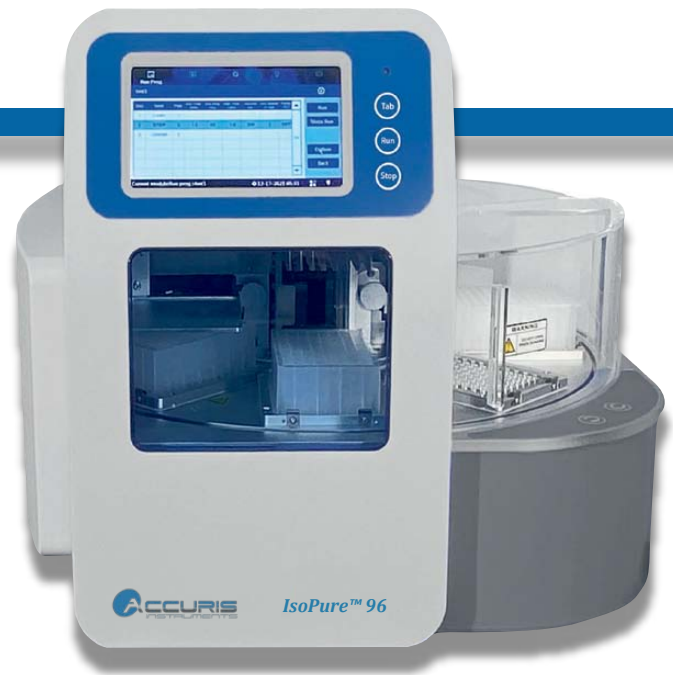


Protein



- *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 50µL - 1000µL*

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

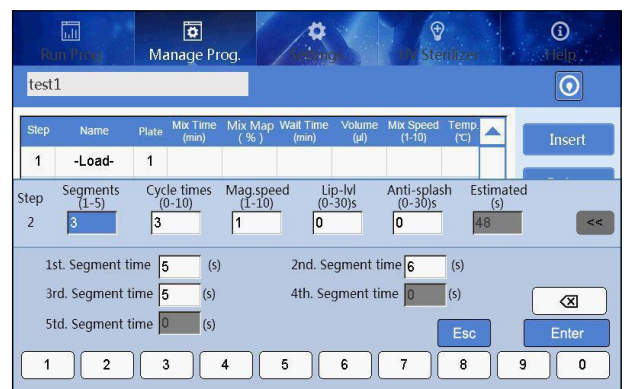
Heating of the sample mixture during the lysis and elution steps significantly improves the purity and yield of the target molecule. The IsoPure 96 is equipped with 2 heating blocks on the plate carousel that can be precisely set to temperatures from ambient + 5°C to 120°C. IsoPure deep well plates fit into the heating blocks for efficient heat transfer. A cooling fan inside the processing chamber maintains the ambient operating temperature to ensure consistent results.

Bead Collection and Release

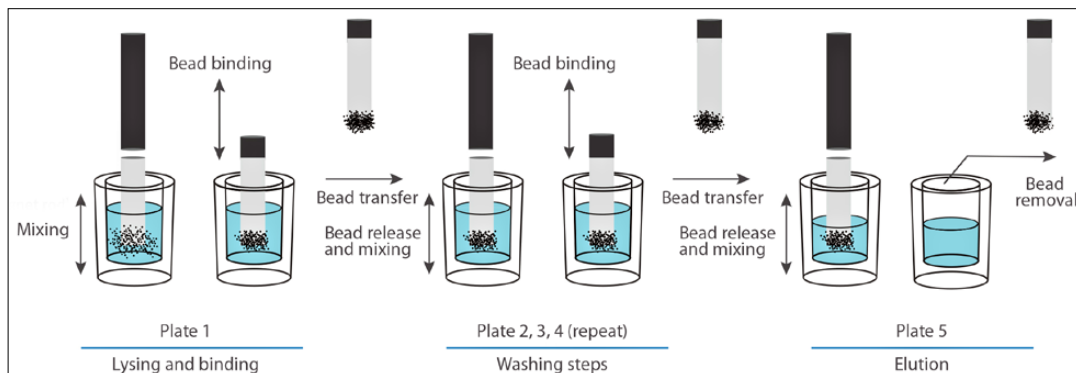
The complete collection of magnetic beads from sample mixtures is crucial for maximizing the yield of purified analytes. The IsoPure software offers full control of magnetic parameters to ensure cleaner extractions. General settings allow control of magnet speed, position, repeat collection cycles, etc, to guarantee consistent yields.



Mixing Parameters & Temperature Setting



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 the IsoPure Technical Support Team at info@accuris-usa.com.

Built-in UV Sterilization

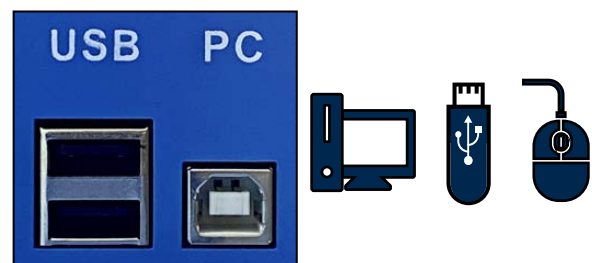
An ultraviolet sterilization lamp (UVC) inside the processing chamber provides effective elimination of most bacterial, viral, and stray genomic DNA contaminants. This additional safeguard reduces the possibility of unwanted DNA/RNA contamination of critical samples that could be amplified downstream 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.



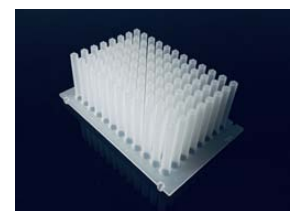
Ports for Mouse, PC Connection, Storage and Transfer

IsoPure™ Consumables

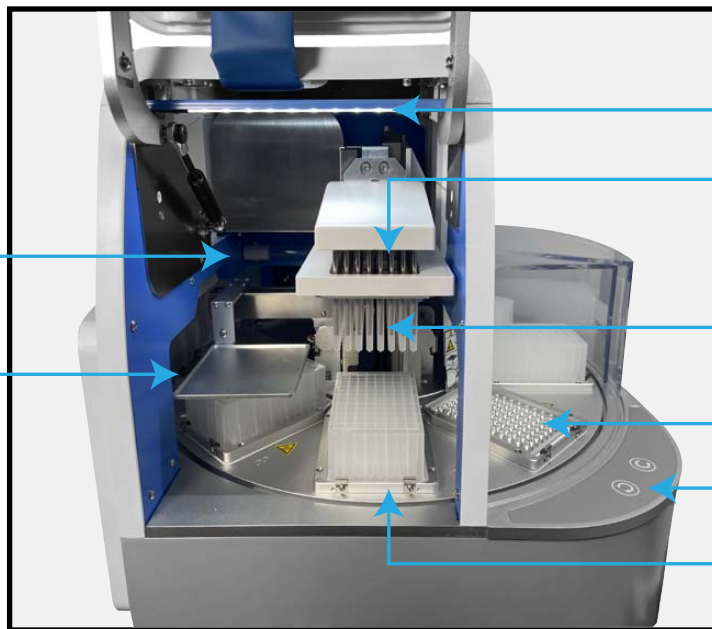
Accuris offers high-quality deep well plates and magnetic tip combs designed to fit the IsoPure 96. Produced using virgin polypropylene and packaged in a sterile facility, these consumables are guaranteed to be contaminant-free. The IsoPure 96 also accepts industry-standard 96 deep well plates and tip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

Capacity / sample volume	96 samples / 50µL to 1000µL
Display	7.0 inch-color touch screen
Plate positions	8 plate positions
Lysis temperature range	Ambient +5°C to 120°C
Elution temperature range	Ambient +5°C to 120°C
Mixing speed	Variable, 10 levels
Programming control	Touch screen/mouse or PC connection
Program memory	100 programs
Communication ports	USB, LAN, & PC
Magnetic bead recovery rate	>95%
Internal lighting	LED
Contamination control	UV sterilization, lamp included (3W, 253.7nm)
Dimensions	21.6 x 24.4 x 18.9 in. (55 x 62 x 48 cm)
Weight	54 kg / 119 lbs
Electrical input	Universal 120 to 240VAC
Warranty	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 50µL - 1000µL
- 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

Cat No.	Description
AP1096*	IsoPure™ 96, Automated Purification System, 120V - 240V input
AP1096-DWP	96 deep well plates for IsoPure™, pack of 50
AP1096-TC	Tip Comb for IsoPure™ 96, pack of 50

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