

Automated System for Magnetic Bead-Based Purification



DNA



RNA



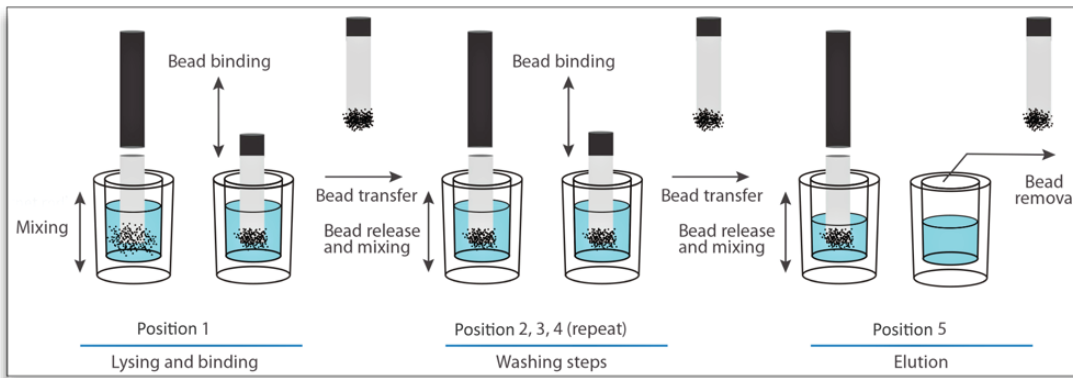
Protein

**Hands off
processing of
up to 16
samples**



- *Fast, reliable, & reproducible results*
- *Compatible with all popular magnetic bead kits*
- *Compact (8 x 10 in footprint)*
- *Process up to 16 samples*
- *Android app & PC software for programming*
- *Sample volume 50µL - 1000µL*

Magnetic bead-based purification has become a preferred method for isolating DNA, RNA, and other target molecules from a variety of biological sample types. This method produces higher quality & quantity of the extracted molecules with the additional advantage of lower cost. The *IsoPure™ Mini* from Accuris Instruments is a compact, automated purification system that improves efficiency and reproducibility using the magnetic bead-based method. Capable of processing up to 16 samples at one time, the instrument is easy to set up, program, and operate. Mixing, magnetic bead transfer, washing, and elution steps are performed automatically, saving valuable hands-on time. The purification process can be completed within 10 to 60 minutes depending on the type of reagent kit used and the complexity of the program.



Typical Purification Process

Programming via Android™ App or PC Software

Creating a protocol is simple using the IsoPure app or PC software, both are included on a USB flash drive with each instrument. Mixing speed, sample temperature, and magnetization parameters can be all be programmed. Protocols created using the IsoPure app can be transferred to the instrument via Bluetooth connection. Protocols created using the PC software can be transferred to the instrument via a USB flash drive. In addition, both the IsoPure app and PC software can generate a protocol-specific QR code for instant transfer.



Create programs using any Android device, transfer via Bluetooth

QR code Scanning System

A handheld scanner is included with each IsoPure Mini, adding a convenient and fast method for loading a protocol onto the instrument. After creating or opening a protocol on a companion Android device or a PC, an option is available for displaying a QR code. Simply scan the QR code to instantly transfer the protocol. QR codes are available from different kit manufacturers for instant loading of optimized protocols.



Scanning QR code from app

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.

Sample Temperature Control

Heating sample mixtures during the lysis and elution steps can significantly improve results. The heating block on the sample platform can be precisely set to any temperature between ambient +5°C to 120°C. Both deep well plates and 6-well sample strips fit into the contoured heating block for efficient heat transfer. Cooling fans can be set to maintain ambient operating temperature.

Connection Ports

The IsoPure Mini can store up to 100 program files in internal memory. These can be transferred between instruments or to a computer for storage or sharing. Simply insert the included flash drive to export the selected files. Internal protocol management can be done via the instrument touch screen, or by using the included mouse.

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 contamination and downstream amplification of unwanted targets.

Touch-Screen Control Panel

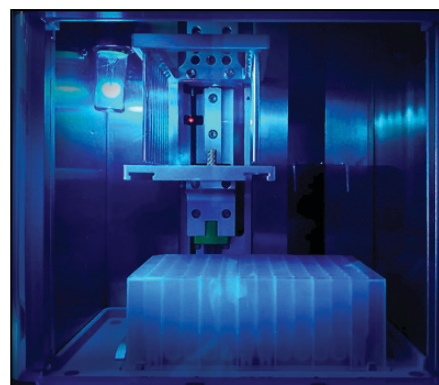
The control panel on top of the IsoPure Mini allows for quick selection of stored protocols and instrument control. To execute a protocol, select it from the file list, insert a prepared sample plate (or 6-well sample strips) and tip combs, and press the start button. Run parameters and operating status are displayed during sample processing.



Heating block for lysis & elution



Ports for Mouse, Scanner, Storage and Transfer



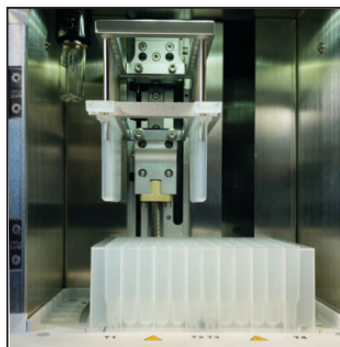
UV Sterilization



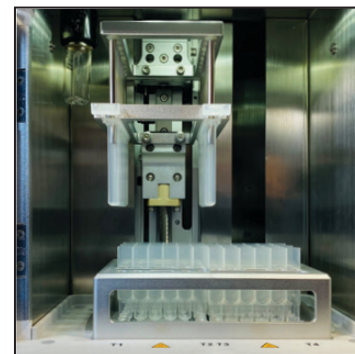
Touch screen control panel

IsoPure™ Consumables

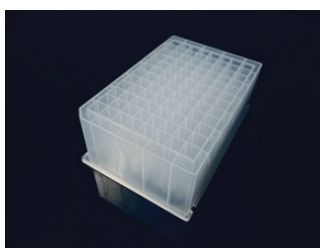
Accuris offers magnetic tip combs, deep well plates, and 6-well sample strips designed to fit the IsoPure Mini. Produced using virgin polypropylene and packaged in a sterile environment, these consumables are guaranteed to be contaminant-free. The 8-place magnetic tip combs lock into position inside the instruments processing chamber. There are 2 options for sample vessels: 96 deep-well plates can be used for processing up to 16 samples. For 8 or fewer samples, 6-well sample strips can be used, and these are loaded onto the included aluminum rack. These sample strips reduce waste and lower consumable costs when only a few samples need to be processed.



Deep-well plate for processing up to 16 samples



6-well sample strips loaded in aluminum rack



**AP1096-DWP
96 deep well plate**



**AP1016-ASR
Aluminum rack**



**AP1016-6W
6-well sample strip**



**AP1016-MC
8-place tip comb**

Specifications

Display	4.3 inch-color touch screen
Capacity / sample volume	16 samples / 50µL to 1000µL
Magnetic bead recovery rate	>95%
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	Bluetooth-enabled android device(not included)
Program memory	100 programs (internal memory)
Communication ports	USB for mouse, file storage & transfer
Internal lighting	LED
Contamination control	UV lamp (3W, 253.7nm UVC wavelength)
Program Transfer	Bluetooth, QR scanner, USB flash drive
Dimensions	7.9 x 10.2 x 11.8 in. (20 x 26 x 30 cm)
Weight	7.0 kg / 15.4 lbs
Electrical input	Universal 120 to 240VAC
Warranty	2 years

Ordering Information

Cat No.	Description
AP1016*	IsoPure™ Mini, Automated Purification System, 120V - 240V input
AP1096-DWP	96 deep well plates for IsoPure™, pack of 50
AP1016-MC	8-place magnetic tip comb, pack of 50
AP1016-6W	6-well sample strips, pack of 100
AP1016-TAB	Android tablet preloaded with IsoPure™ app

* Use part number AP1016-E to indicate 240V input and specify required plug type.

Also available from Accuris Instruments



IsoPure™ 96

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