

VWR® 16-Sample Purification System

01. COMPATIBLE WITH ALL POPULAR MAGNETIC BEAD KITS

02. HANDS-OFF PROCESSING AND CONSISTENT RESULTS

03. PROCESSING CAPACITY UP TO 16 SAMPLES

04. PROGRAMMABLE WITH PC SOFTWARE OR ANDROID™ APP



VWR® 16-Sample Purification System

- Compatible with all popular magnetic bead kits
- Hands-off processing and consistent results
- Compact design
- Processing capacity up to 16 samples
- Programmable with PC software or Android app

Magnetic bead purification has become the preferred method for isolating DNA, RNA, and other target molecules from a variety of biological sample types. This method is often preferred over alternatives such as spin columns because the quality and quantity of the extracted molecules can be significantly higher while the cost per sample and processing time can be lower.

Capable of processing up to 16 samples at one time, the VWR® 16-Sample Purification System is easy to set up, program, and operate. Mixing, bead transfer, wash steps, and elution steps are performed automatically, saving 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.



ANDROID™ APP OR PC SOFTWARE FOR PROGRAMMING

Creating a protocol is simple using VWR's Android™ app or PC software; both are included on a USB flash drive with each instrument. The mixing speeds, incubation temperature, and magnet rod movement can all be programmed. When using the Android app on a tablet or phone, the saved protocols can be transferred to the instrument via Bluetooth™ connection or by using the included barcode scanner. The optional VWR® Tablet (77321-874) comes with the app preloaded and ready to use. Alternatively, the PC software can be used for programming and transferring protocols via the USB drive or barcode scanner.

BARCODE SCANNING SYSTEM

The handheld scanner, included with each VWR® 16-Sample Purification System, adds a convenient and fast method for loading a protocol onto the instrument. 2D barcodes are supplied by many of the magnetic bead kit suppliers, and these barcodes include the full protocol script for uploading to the instrument. Simply scan the barcode to instantly transfer the protocol. The Android™ app and PC software can also be used to generate scannable barcodes.

PROTOCOL OPTIMIZATION

The VWR® 16-Sample Purification System has been validated with several magnetic bead kits from leading manufacturers and a number of optimized protocols for specific applications are available. To request scripts for specific kits, or for assistance in optimization, please contact VWR's Technical Support Team at TechnicalProductSupportNA@vwr.com.

SAMPLE TEMPERATURE CONTROL

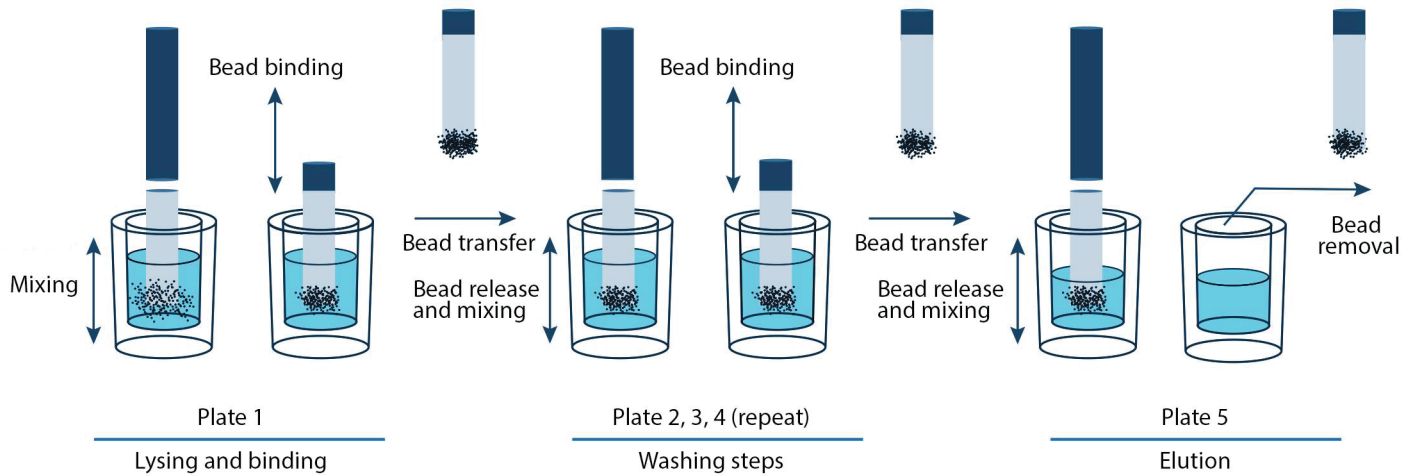
Lysis and elution steps often require elevated temperature for optimal results. The sample chamber incorporates heating strips that can be precisely set to any temperature between ambient +5 °C to 120 °C. Both deep well plates and 6-well sample vessels fit into the contoured heating strips for efficient heat transfer to the sample liquid. Cooling fans in the instrument chamber maintain ambient temperature inside the housing.

COMMUNICATION PORTS

The VWR® 16-Sample Purification System can store up to 100 protocols in its internal memory. These files can be transferred between instruments or to a computer for storage or sharing. Simply insert the included USB drive to export the selected files. Once a protocol has been transferred to the instrument, it can be run via the control panel.

CHAMBER STERILIZATION

A UV lamp (UVC) inside the processing chamber provides effective elimination of most bacterial, viral, and stray genomic DNA contaminants. This safeguard reduces the possibility of contamination and downstream amplification of unwanted targets.



Typical Purification Process

CONTROL PANEL WITH TOUCH SCREEN

The control panel on top of the VWR® 16-Sample Purification System allows for quick selection of stored protocols and instrument control. To run a protocol, select it from the file list, insert the appropriate consumables (plate or sample vessels) and tip combs, and press the start button. Run parameters and operating status are displayed in real time during sample processing.

VWR® CONSUMABLES

VWR® offers magnetic tip combs, deep well plates, and 6-well sample vessels specifically designed to fit the instrument. The 8-place tip combs lock into position inside the instrument's processing chamber. There are 2 options for sample vessels: 96 deep-well plates or 6-well sample vessels. For processing up to 16 samples, deep well plates are used. When only 8 or fewer samples need to be processed, the 6-well sample vessels are ideal, and these are loaded onto the included aluminum rack. These sample vessels reduce waste and lower consumable costs when only a few samples need to be processed.

SPECIFICATIONS

Capacity/Sample volume	16 samples / 50 µl to 1000 µl
Lysis temperature range	Ambient +5 °C to 120 °C
Elution temperature range	Ambient +5 °C to 120 °C
Mixing speed	10 levels
Programming control	PC software or Android app (software and app files included on a USB drive)
Program memory	100 protocols in internal memory
Communication ports	USB for mouse and USB drive storage and transfer
Internal lighting	LED
Contamination control	UV lamp (3W, 253.7 nm UVC wavelength)
Scanner	2D barcode scanner included
Dimensions	7.9 x 10.2 x 11.8 in. (20 x 26 x 30 cm)
Weight	15.4 lbs / 7.0 kg
Electrical input	120 VAC to 240 VAC
Warranty	2 Years

ORDERING TABLE

Description	Cat.No.
VWR® 16-Sample Purification System 115V	77321-876
VWR® 16-Sample Purification System 230V	77321-878
VWR® 8 Place Tip Combs CS50	77321-872
VWR® 6-Well Sample Vessels CS100	77321-868
VWR® Tablet FR 16-Sample Purification System	77321-874
VWR® 96 Deep-Well Plates CS60	43001-0504

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