

EXCELAPURE 96-Well UF PCR Purification Kit

Product	Catalog #	Purifications
ExcelaPure 96-Well UF PCR Purification Kit (1 Plate)	39614	96
ExcelaPure 96-Well UF PCR Purification Kit (10 Plates)	84900	960

Description

ExcelaPure 96-Well UF PCR Purification Kit provides a simple, automatable, high-throughput method for purifying PCR reactions in 50-300µl volumes using ultrafiltration. ExcelaPure 96-Well UF Plates consist of an optimized ultrafiltration membrane for high recovery of your PCR products. Excess primers, primer dimers, dNTPs and salts are filtered to waste under vacuum pressure, while your purified PCR product is retained on the ultrafiltration membrane. Purified PCR products are recovered after a quick elution and ready for use. ExcelaPure 96-Well UF Plates can be processed manually with most vacuum manifolds on the market or automated for high throughput PCR purification on standard liquid handling instruments.

Kit Components	39614	84900
ExcelaPure 96-Well UF Plate	1 plate (1 x PN 4050208)	10 plates (10 x PN 4050208)
96-Well V-Bottom Plate	1 plate (1 x PN 4050209)	10 plates (2 x PN 4050099)

Equipment and Materials Required

- Vacuum Manifold¹
- Deionized water or 1X TE
- Multi-channel pipettor

Storage Condition

Store at Room Temperature.

Quality Control

Tested for primer removal and dsDNA recovery of different size fragments.

Recommended Protocol for >300bp PCR Products

- Prepare the vacuum manifold¹ according to manufacturer's instructions.
- Place ExcelaPure 96-Well UF Plate on top of the vacuum manifold.
- Transfer PCR products carefully to the membrane of the ExcelaPure 96-Well UF Plate.
 - Note: If the reaction volume is < 100µl, add deionized water so that the final volume is 100µl.
 - Unused wells of the plate do not have to be sealed when vacuum is applied.
- Apply vacuum² at 20 inches Hg for 5-10 minutes or until the wells are dry. Turn vacuum off.
 - The wells of the plate may appear shiny when dry.
 - Vacuum times increase when processing >100µl volumes.
- Optional: Add 100µl deionized water and apply vacuum² at 20 inches Hg until the wells are dry. Turn vacuum off.
 - This optional washing step may be required for sensitive downstream applications.
- Add 100µl deionized water or 1X TE.
- Resuspend purified DNA by pipetting up and down 20 times.
 - Alternatively, mix for 10 minutes on a plate shaker. Avoid high speeds that cause displacement of samples from wells.
- Transfer purified PCR products to a 96-Well V-Bottom Plate.

Recommended Protocol for 100-300bp PCR Products

- Prepare the vacuum manifold¹ according to manufacturer's instructions.
- Place ExcelaPure 96-Well UF Plate on top of the vacuum manifold.
- Transfer PCR products carefully to the membrane of the ExcelaPure 96-Well UF Plate.

Warning: This product is intended for **research use only**. It is not to be used for diagnostic purposes in humans or animals.

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TEL: 800-326-2685 OR 301-990-2685 * FAX: 301-990-0881
 19208 Orbit Drive, Gaithersburg, MD 20879-4149
 E-MAIL: Info@edgebio.com * INTERNET: <http://www.edgebio.com>

- Note: If the reaction volume is <100µl, add deionized water so that the final volume is 100µl.
 - Unused wells of the plate do not have to be sealed when vacuum is applied.
4. Apply vacuum at 10 inches Hg for 10 minutes or until the wells are dry. Turn vacuum off.
 - The wells of the plate may appear shiny when dry.
 - Vacuum times increase when processing >100µl volumes.
 5. Optional: Add 100µl deionized water and apply vacuum at 10 inches Hg until the wells are dry. Turn vacuum off.
 - This optional wash step may be required for sensitive downstream applications.
 6. Add 100µl deionized water or 1X TE.
 7. Resuspend purified DNA by vigorously pipetting up and down 20 times.
 - Alternatively, mix for 10 minutes on a plate shaker. Avoid high speeds that cause displacement of samples from wells.
 8. Transfer purified PCR products to a 96-Well V-Bottom Plate.

Additional Notes

1. List of Validated Vacuum Manifolds
 - Millipore MultiScreen Vacuum Manifold Cat. No. MAVM 096 OR
 - QIAvac Multiwell Unit Cat. No. 9014597
 - Whatman UniVac 3 Vacuum Manifold Cat. No. 7705-0102
2. Pressure Conversions

To convert to Inches of Mercury (in Hg) from:	Multiply by:
Millimeters of Mercury (mm Hg)	25.4
Atmospheres (atm)	0.033421
Torr (Torr)	25.4
Millibars (mbars)	33.86
Pounds per square inch (psi)	0.491153
Kilopascals (kPa)	3.386380

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