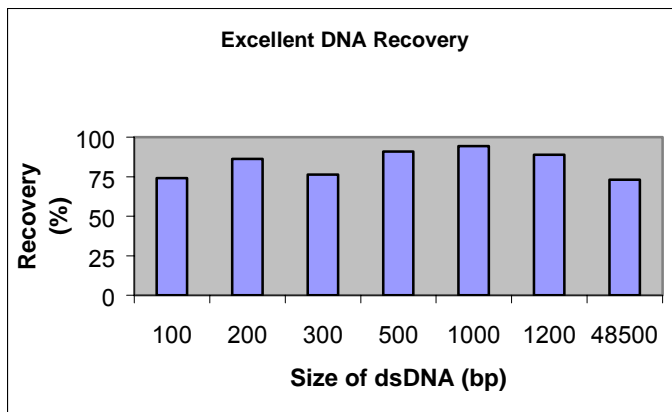




Frequently Asked Questions for ExcelaPure 96-Well UF PCR Purification Kit

Sample Recovery

1. **What is the maximum sample volume?** The maximum volume of PCR product that may be purified on these plates is 300 μ l.
2. **What is the minimum sample volume?** The minimum volume of PCR product that may be purified on these plates is 50 μ l. Samples must be brought up to \geq 100 μ l using deionized water.
3. **What size PCR products can I purify with ExcelaPure 96-Well UF Plates?**
We have purified PCR products as small as 100 base pairs and up to 48.5-kilo bases.
4. **My PCR products are <50 μ l. Do you recommend bringing the sample volume to 100 μ l?** Yes. Use deionized water to bring all sample volumes \leq 50 μ l up to 100 μ l.
5. **My recoveries are lower than expected. Can I improve the recoveries?**
When resuspending your purified PCR product manually, ensure that the product is adequately mixed by vigorously pipetting up and down 20 times. When using a plate shaker, optimize shaker speed and time to ensure sufficient agitation. For liquid handling instruments, optimize aspiration/dispensing of your purified PCR product. Also, check the vacuum setting, we recommend 20 in Hg for PCR products > 300 base pairs. For PCR products 100 – 300 base pairs, we recommend 10 in Hg.
6. **What percent recoveries should I be expecting from use of ExcelaPure 96-Well PCR Purification Kit?** We have calculated the recoveries of various size PCR products:



dsDNA (bp)	Recovery (%)
100	74
200	86
300	76
500	91
1000	94
1200	89
48500	73

7. **Will ExcelaPure 96-Well UF Plates remove primer-dimers?** Yes. This product will efficiently remove primer-dimers from your PCR products. We have tested the removal of a 50 base pair fragment.



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General

1. **What is the recommended vacuum manifold?** The ExcelaPure 96-Well UF Plate has a standard SBS footprint that is compatible with most vacuum manifolds. We evaluated the following vacuum manifolds during product development:

List of Validated Vacuum Manifolds

Manufacturer Vacuum Manifold	Manufacturer Catalog Number
Millipore MultiScreen Vacuum Manifold	MAVM 096 OR
QIAvac Multiwell Unit	9014597
Whatman UniVac 3 Vacuum Manifold	7705-0102

2. **I have less than 96 PCR Reaction samples. Can I use only part of the ExcelaPure 96-Well Plate?**
Yes, you may partially use the ExcelaPure 96-Well UF Plate. The unused wells of the plate do not need to be taped when applying vacuum.
3. **Can I use a centrifuge instead of a vacuum manifold when processing the ExcelaPure 96-Well UF Plate?** Yes, you can centrifuge the ExcelaPure 96-Well UF Plate. For further details please contact Edge Biosystems' Technical Service at 1 (800) 326-2685.
4. **Do I have to perform a wash step using the ExcelaPure 96-Well UF Plate?**
The wash step is optional. PCR products are suitable for DNA sequencing and microarray spotting after the initial vacuum step. Some sensitive downstream applications may need higher purity DNA and require the optional wash step.
5. **How long should I vacuum the plate?** We recommend vacuuming the plate for 5 – 10 minutes, or until the wells are empty. The wells of the plate appear shiny when dry. Alternatively, use a pipette to verify if there is any remaining liquid in the wells. Do not over dry the plate. Vacuum times increase when processing > 100 µl volumes.
6. **Is the Excelapure 96-Well UF Plate automation compatible?** Yes. We have tested the plate using the Beckman BioMek FX and NextGen's Expression Factory automated platforms.
7. **Should I use deionized water or 1X TE to resuspend final PCR products?**
Either deionized water or 1X TE may be used with the ExcelaPure 96-Well UF Plate.
8. **What is the optimal vacuum setting?** For PCR products > 300 base pairs, we recommend 20 in Hg. For PCR products 100 – 300 base pairs, we recommend 10 in Hg. To convert to other units, please use our Pressure Conversions Chart.



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To convert from Inches of Mercury (in Hg)	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

9. **How do I resuspend my PCR products?** PCR products can be resuspended either by manually pipetting up and down 20 times, use of a plate shaker or liquid handling instrument.

Storage

1. **What are the storage conditions for the ExcelaPure 96-Well UF Plates?**
The ExcelaPure 96-Well UF Plate should be stored at room temperature.
2. **Can I store the purified PCR product on the membrane and resuspend later?** No, it is not recommended. The purified PCR product should be resuspended and transferred to a suitable plate for storage.

Plate Dimensions

1. **What are the dimensions of the ExcelaPure 96-Well UF Plate?**
Plate length: 27.8 mm
Plate width: 85.5 mm
Plate depth: 19.7 mm
Well Depth: 18.3 mm
2. **What is the surface area of the membrane in the individual wells of the plate?** The surface area is 0.19 cm².