

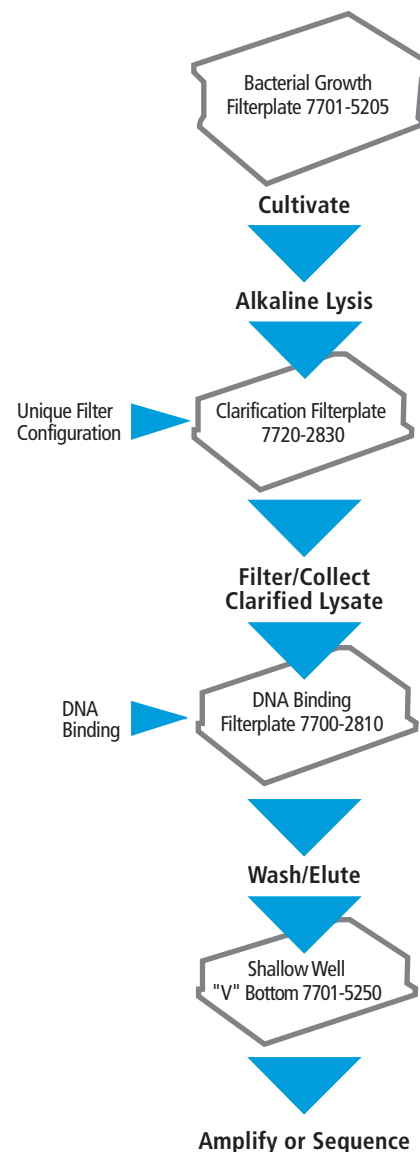
Plasmid Miniprep



The preparation of plasmid DNA from bacterial culture is an extremely common procedure. The Whatman Plasmid Miniprep System simplifies the process, increases the throughput and improves the purity of plasmid DNA. The Whatman Plasmid Miniprep System consists of a few basic steps, each with an optimized microplate. Sample results of the Plasmid Miniprep process are shown at right.

Average Yield Per Well	6.0 µg
A260/A280	1.94
EcoR1 Digest	Yes
Sequencing Accuracy (BLAST)	97% over 600 bp

Full protocol available on request.



Ordering Information

Plasmid Miniprep							
Catalog Number	Well Format	Well Volume	Plate Material	Well Bottom	Filter Media	Irradiated with Lid	Quantity/Case
7701-5205	96	2 mL	Natural Polypropylene	Round	—	Yes	25
7720-2830	96	800 µL	Clear Polystyrene	Filter, LDD†	Lysate Clarification	No	25
7700-2810	96	800 µL	Clear Polystyrene	Filter, LDD†	DNA Binding	No	25
7701-5200	96	2 mL	Natural Polypropylene	Round	—	No	25
7701-5750	96	750 µL	Natural Polypropylene	Round	—	No	25
7701-5250*	96	250 µL	Natural Polypropylene	"V"	—	No	50
Plasmid Miniprep							
Catalog Number		Description				Quantity/Case	
7705-0102		UniVac™ 3 vacuum/collect manifold				1	

* Does not comply with SBS Standards.

† LDD = Long Drip Director

96 Well Bacterial Growth Plate

The Whatman High Throughput Bacterial Growth plate can simplify and accelerate the growth of 96 individual 1.5 mL bacterial cultures. It is used for both overnight cultivation and the

initial “spin down” of bacteria. Made of medical grade polypropylene with a clear polystyrene lid, this gamma-irradiated plate eliminates the need to grow multiple, discrete cultures.



Ordering Information

96 Well Bacterial Growth Plate					
Catalog Number	Well Format	Well Volume (mL)	Plate Material	Irradiated with Lid	Quantity/Case
7701-5205	96	2	Polypropylene	Yes	25 (individually bagged)

96 Well Lysate Clarification UNIFILTER®

The Whatman Lysate Clarification UNIFILTER can utilize either vacuum or a centrifuge. The vacuum process is significantly easier to automate with consistency across all wells. It also has an average DNA recovery rate 10 to 30% higher than the manual centrifuge method. This method filters out cell debris to obtain plasmid DNA in the

aqueous phase. Whatman filter technology results in high particle retention and fast flow rates while producing a clean lysate. The Lysate Clarification plate is an important tool for high throughput plasmid DNA purification.



Ordering Information

96 Well Lysate Clarification UNIFILTER®					
Catalog Number	Well Format	Well Volume (µL)	Plate Material	Filter Media	Quantity/Case
7720-2830	96	800	Clear Polystyrene	Lysate Clarification	25

96 Well DNA Binding UNIFILTER®

Whatman Plasmid DNA Binding UNIFILTER works either as a stand-alone or as part of our high throughput miniprep system. Plasmid DNA is bound to the filter under chaotropic conditions, washed twice and then vacuumed to dryness on a vacuum manifold. The plasmid DNA is eluted by vacuum in a final volume of 100 µL into a nonbinding polypropylene collection plate using water or TE⁻¹ Buffer. The DNA is ready to use and further ethanol precipitation

is unnecessary. The final concentration is 50 to 100 ng/µL, depending on the original culture. The OD_{260/280} ratio is 1.9 and the yields in all 96 wells “max out” at 6 µg. Full protocol available on request.

The Plasmid DNA Binding plate can be used with both vacuum and centrifuge techniques, making it a vital and flexible tool in every high throughput lab.



Ordering Information

96 Well DNA Binding UNIFILTER®					
Catalog Number	Well Format	Well Volume (µL)	Plate Material	Filter Media	Quantity/Case
7700-2810	96	800	Clear Polystyrene	DNA Binding	25

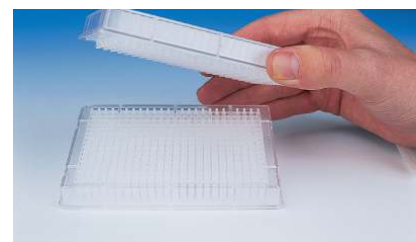
Whatman®

Call: 1.800.WHATMAN

384 Well DNA Binding UNIFILTER®

The 384 Well DNA Binding UNIFILTER provides highly reproducible results with yields exceeding 2 µg/well, from bind-wash-elute processing with collection by filtration. Minimal liquid

hangup allows for reduced elution volume, enabling DNA concentration as high as 150 ng/µL. Further ethanol precipitation is unnecessary. The DNA is ready to use.



Ordering Information

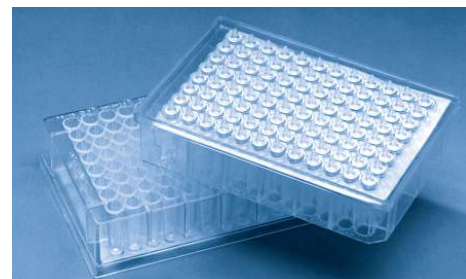
384 Well DNA Binding UNIFILTER®					
Catalog Number	Well Format	Well Volume (µL)	Plate Material	Filter Media	Quantity/Case
7700-2110	384	100	Clear Polystyrene	DNA Binding	50
7701-1100	384	100	Clear Polystyrene	N/A	50

High Throughput Genomics UNIFILTER®

With ever increasing demand for simple, fast methods to purify DNA from bacterial cultures, the Whatman Genomics microplate is the ideal solution for the clarification of lysates containing large insert vectors.

This microplate has a Cellulose Acetate membrane with a special support, which clears nonchaotropic bacterial lysates, and long drip directors.

Without further purification, the DNA is clean enough for further enzymatic manipulation. Cellulose Acetate acts as both a depth filter and a fine particle filter. The 0.45 µm pores do not block because of the depth effect of the membrane. Cellulose Acetate is also inert and does not bind either DNA or protein.



Ordering Information

High Throughput Genomics UNIFILTER®						
Catalog Number	Well Format	Well Volume	Plate Material	Filter Media	Well Bottom	Quantity/Case
7700-2808	96	800 µL	Clear Polystyrene	0.45 µm Cellulose Acetate	N/A	25
7701-5200	96	2 mL	Natural Polypropylene	N/A	Round	25

NEW PCR Cleanup UNIFILTER®

Process 96 or 384 samples quickly with greater than 85% recovery. The Whatman PCR Cleanup UNIFILTER eliminates time-consuming precipitations and labor-intensive resin purifications. Purified DNA is ready for

sequencing, hybridization assays and microarrays. The PCR Cleanup UNIFILTERs can be used with both vacuum and centrifuge techniques. (Centrifugation is recommended for final elution with the 384 well UNIFILTER.)



Ordering Information

PCR Cleanup UNIFILTER®					
Catalog Number	Well Format	Well Volume (µL)	Plate Material	Filter Media	Quantity/Case
7700-2810	96	800	Clear Polystyrene	DNA Binding	25
7701-5250*	96	250	Natural Polypropylene	N/A	50
7700-2110	384	100	Clear Polystyrene	DNA Binding	50
7701-1100	384	100	Clear Polystyrene	N/A	50

* Does not comply with SBS Standards.

NEW 96 Well Dye Terminator Removal UNIFILTER®

This UNIFILTER can be used with gel filtration media for high throughput sequencing reaction cleanup, including removal of dye blobs. It is constructed from rigid polystyrene that can withstand centrifugation. Laboratory packing of gel filtration media is less expensive than pre-packed plates or spin columns.

**Ordering Information**

96 Well Dye Terminator Removal UNIFILTER®					
Catalog Number	Well Format	Well Volume (µL)	Plate Material	Well Bottom	Quantity/Case
7700-2801	96	800	Polystyrene	Filter, LDD*	25
7701-5750	96	750	Natural Polypropylene	Round	25

*Long drip director

NEW 384 Well Dye Terminator Removal UNIFILTER®

A 384 well version is also available for Dye Terminator Removal.

**Ordering Information**

384 Well Dye Terminator Removal UNIFILTER®					
Catalog Number	Well Format	Well Volume (µL)	Plate Material	Well Bottom	Quantity/Case
7700-1101	384	100	Polystyrene	Filter, LDD*	50

*Long drip director

NEW Protein Precipitation UNIFILTER® FF

The Whatman Protein Precipitation UNIFILTER is optimized for removing acetonitrile-precipitated proteins from plasma or serum samples. Made with 2 mL, 96 well, rigid glass-filled polypropylene microplates, the Whatman Protein Precipitation UNIFILTER is both robust and chemically resistant. The plates contain specially formulated dual membranes with two

distinct layers. The top layer acts as a prefilter to remove coarse particulates. The bottom layer is oleophobic for retaining the well contents without dripping. This provides a final filter for removing fine particulate matter when a vacuum is applied. Now available in two models: Fast Flow (7720-7236) and Standard (7720-7235).



Ordering Information

Protein Precipitation UNIFILTER® FF					
Catalog Number	Well Format	Well Volume	Plate Material	Well Bottom	Quantity/Case
7720-7235	96	2 mL	Glass Polypropylene	Standard	1
7720-7236	96	2 mL	Glass Polypropylene	Fast Flow	5
7701-5750	96	750 µL	Natural Polypropylene	Round Bottom	25
7701-5250*	96	250 µL	Natural Polypropylene	"V" Bottom	50

* Does not comply with SBS Standards. Full protocol available on request.

MULTIWELL PLATES

Protein Kinase Assay UNIFILTER®

The Whatman Protein Kinase Assay filter plate incorporates a P-81 filter in each well. P-81 is a cation exchanger that binds peptides but does not bind unincorporated ATP, resulting in low nonspecific background noise and high sensitivity in kinase assay. The filter

plate is produced to SBS standards in rigid white polystyrene or Barex to eliminate optical crosstalk problems during Liquid Scintillation Counting. The 150 µL UNIFILTER has shallow wells enabling higher detection sensitivity.



Ordering Information

Protein Kinase Assay UNIFILTER®							
Catalog Number	Well Format	Well Volume (µL)	Plate Material	Filter Media	Well Bottom	Drip Director	Quantity/Case
7700-3312	96	350	White Polystyrene	Whatman P 81	Filter	Short	50
7700-4312	96	350	White Polystyrene	Whatman P 81	Mesh	Mesh	50
7700-0512	96	150	White Barex	Whatman P 81	Mesh	Mesh	50

ELISA UNIFILTER®

The Whatman ELISA plate allows researchers to use the binding characteristics of nitrocellulose in the standard SBS 8 x 12 multiwell format. It is also suitable for other types of ligand binding applications such as hybridoma supernatant screening.

Solutions are easily vacuumed to waste using a vacuum manifold. Chemiluminescent assays can be read in the plate. If the ELISA product is eluted then centrifugation is preferred. This microplate is compatible with automated systems.



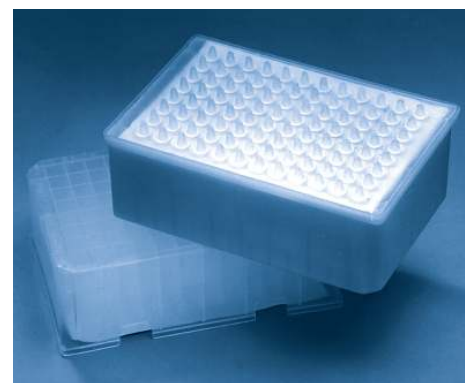
Ordering Information

ELISA UNIFILTER®						
Catalog Number	Well Format	Well Volume	Plate Material	Filter Media	Well Bottom	Quantity/Case
7700-3307	96	350 µL	White Polystyrene	0.45 µm Cellulose Nitrate	Filter	50
7701-1250	96	250 µL	Clear Polystyrene	N/A	"V"	50
7701-5200	96	2 mL	Natural Polypropylene	N/A	Round	25

Phase Separation UNIFILTER®

The Whatman Phase Separation Plate allows for a quick separation of halogenated solvents from an aqueous phase, with no carryover and no close manual contact. The plate consists of a 2 mL, 96 well, rigid glass-filled polypropylene body. It has long drip directors to ensure accurate dispensing of the filtrate. Whatman 1PS media is sealed into each well.

Whatman 1PS is a silicone-treated medium which remains impervious to aqueous solvents but allows the unimpeded passage of organic solvents. Providing that the solvent layer is in contact with the 1PS, the organic solvent layer will drain under gravity until the aqueous interface is reached, when flow will stop automatically. If subsequent harvesting of the aqueous layer is required, a vacuum can then be applied to remove this layer.



Ordering Information

Phase Separation UNIFILTER®					
Catalog Number	Well Format	Well Volume	Plate Material	Well Bottom	Quantity/Case
7720-7229-01	96	2 mL	Glass Filled Polypropylene	Phase Separation	1
7701-5750	96	750 µL	Natural Polypropylene	Round Bottom	25
7701-5200	96	2 mL	Natural Polypropylene	Round Bottom	25