



BIOTECH PRODUCT GUIDE

Company Profile

Advanced Microdevices (mdi) is a leader in innovative membrane technologies. Starting from a single person R&D operation in 1976, mdi has developed into a dedicated team of 300 plus, manufacturing more than 15000 products.

The company's core competence is its ability to develop new membrane technologies and innovate existing ones to deliver advantages to the customer for high end purification and separation applications in a wide ranging fields of life science pharmaceuticals, biopharmaceuticals, biotechnology, food and beverage, hospitals, and immunodiagnostics.

As membranes end up being incorporated into user friendly devices, plastic design, moulding and sealing technologies become an integral part of the chain to deliver value to the customer. Realizing this, mdi has grown into a vertically integrated company that helps deliver prototypes rapidly for quicker conversion to products for the market.

Over the years mdi has created a position for itself by developing latest technologies at low cost and commercializing internationally accepted products at competitive prices. mdi product range includes more than 15,000 products with many more in the pipeline at various stages of Research and Development. Products are exported to over 50 countries worldwide, including major exports to USA, Western Europe, China, and South Korea.

Strong R&D capabilities have propelled mdi to the position of technology leader in immunodiagnostic membranes and materials worldwide. mdi produces the most consistent Nitrocellulose Membranes for Rapid Immunodiagnostic Tests.

mdi's modern GMP facilities with large ISO 7 Clean Areas more than meets the required standards. The products are manufactured in ISO 9001:2008 certified facility with the help of trained manpower meeting or exceeding industry standards. Many mdi products are recognized as the best available in the world.

mdi has a strong pipeline of new products constantly being developed in its well equipped R&D labs.



Existing Facility (100,000 sq. ft.)

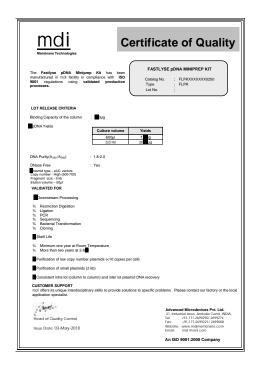


New GMP Facility (100,000 sq. ft.)



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Quality at mdi

" mdi strives to provide to its customer products and services of highest standards possible, consistently superior and more satisfying than what is available anywhere else."

This starts right at the design stage. A careful comparison of user requirements and products available from other manufacturers help to distinguish between an acceptable product from an excellent one.

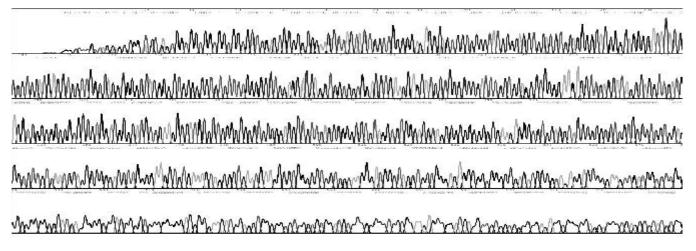
The ability to do so has resulted in a driving force that allows us to develop high technology products such as nucleic acid purification kits with unique performance advantages with respect to major user concerns such as yield, purity, consistency (intra lot as well as inter lot), processing time, binding capacities and shelf life. The kits have been validated to perform as per pre-determined specifications for a variety of downstream applications.

A well equipped test lab with UV spectrophotometer, fluorometers, UV transilluminator, gel electrophoresis, PCR, RT-PCR etc. helps validate these unique innovations.

ISO – 9001: 2008 Certified Quality Management System, careful selection of starting material, validated production processes and testing procedures based on regulatory standards ensure consistently high quality products.

The kits undergo stringent quality control tests and are released for sale only after review and approval of data based on compliance to pre-determined test specifications.

All mdi products are accompanied with a certificate of quality.



High Purity DNA for Automated Sequencing

Sequencer: ABI Prism®

ABI Prism is the registered trade mark of Applied Biosystems



Innovative Technologies for Nucleic Acid Purification

mdi introduces a major breakthrough in the field of nucleic acid purification through its latest research. These special kits offer extremely high yields in much reduced process time while effectively addressing other user concerns such as purity, yields, consistency and shelf life.

mdi Fastlyse pDNA Miniprep Kits

Unique Performance Advantages

- Fastest pDNA isolation in 10 minutes.
- No pellet formation and resuspension steps.
- Works with very low culture volumes upto 600μl.
- Very high binding capacity of up to 50μg.
- Very high yields with low elution volumes.
- Very high within lot and inter lot consistency.



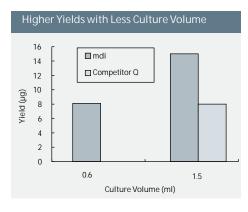
Unique Performance Advantages

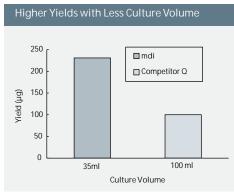
- Fastest large scale pDNA Isolation in just 30 minutes
- Lesser number of operating steps
- Very high binding capacity
- No precipitation required for desalting
- Higher yields with less culture volume
- Highly concentrated, ultrapure pDNA isolation in very low elution volumes
- ◆ High within lot as well as lot to lot consistency

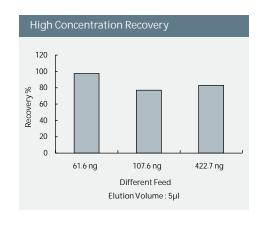


Unique Performance Advantages

- Fastest DNA Purification in just 5 minutes
- ♦ High DNA Recovery from even low feed quantities
- Highly concentrated DNA in very low elution volumes
- Easy purification of large sized fragments without shearing
- Suitable for all type of downstream applications







Plasmid DNA Isolation Kits

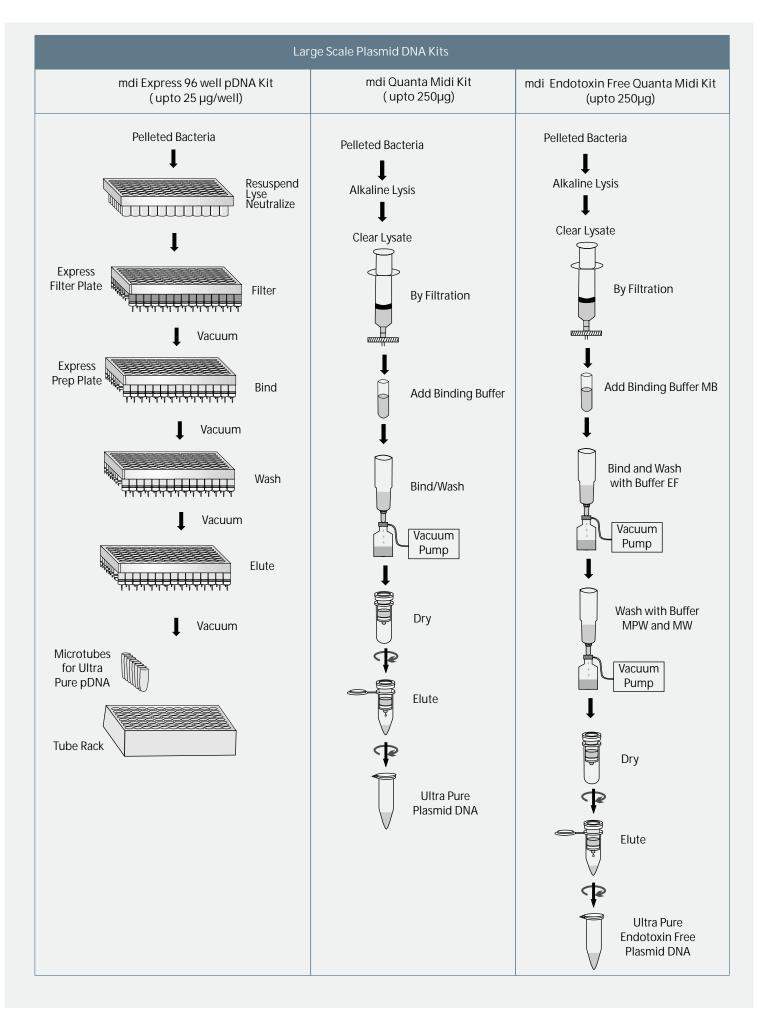
Plasmids are extra chromosomal DNA molecules capable of replicating independently of the chromosomal DNA. This genetic material is ubiquitous in bacteria and because of its special ability to move genes from cell to cell, has become a versatile tool for both researchers and scientists involved in life sciences research. There are several concerns related to researchers such as yields, purity, processing time, binding capacity, consistency and shelf life.

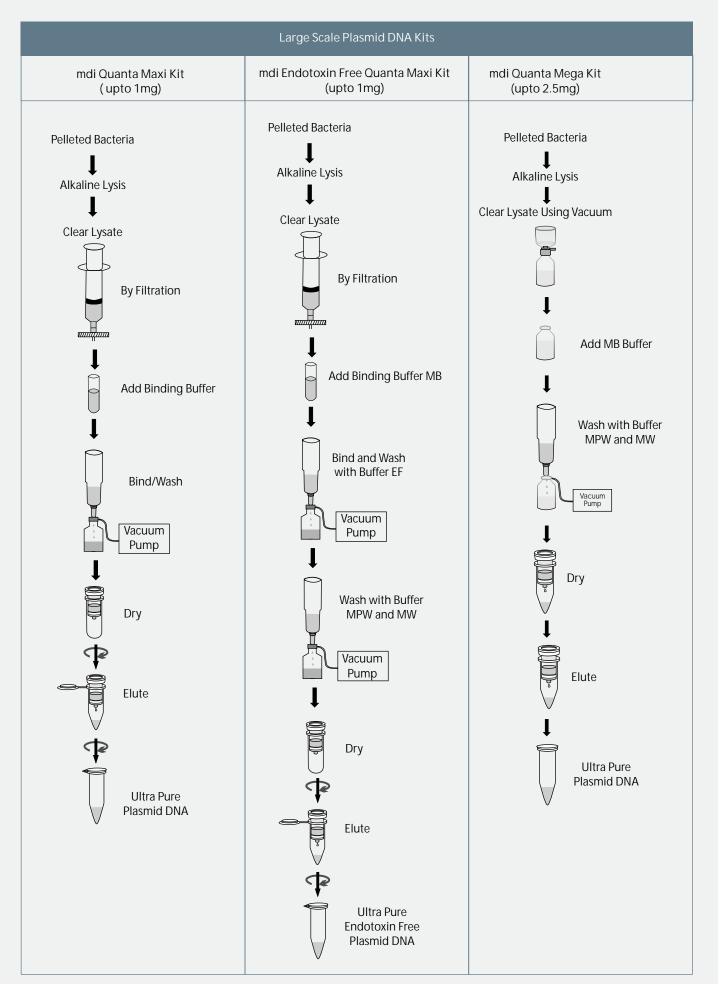
mdi pDNA isolation kits offer many unique advantages with respect to all these issues. The following selection chart will help you choose the most suitable kit for your application.

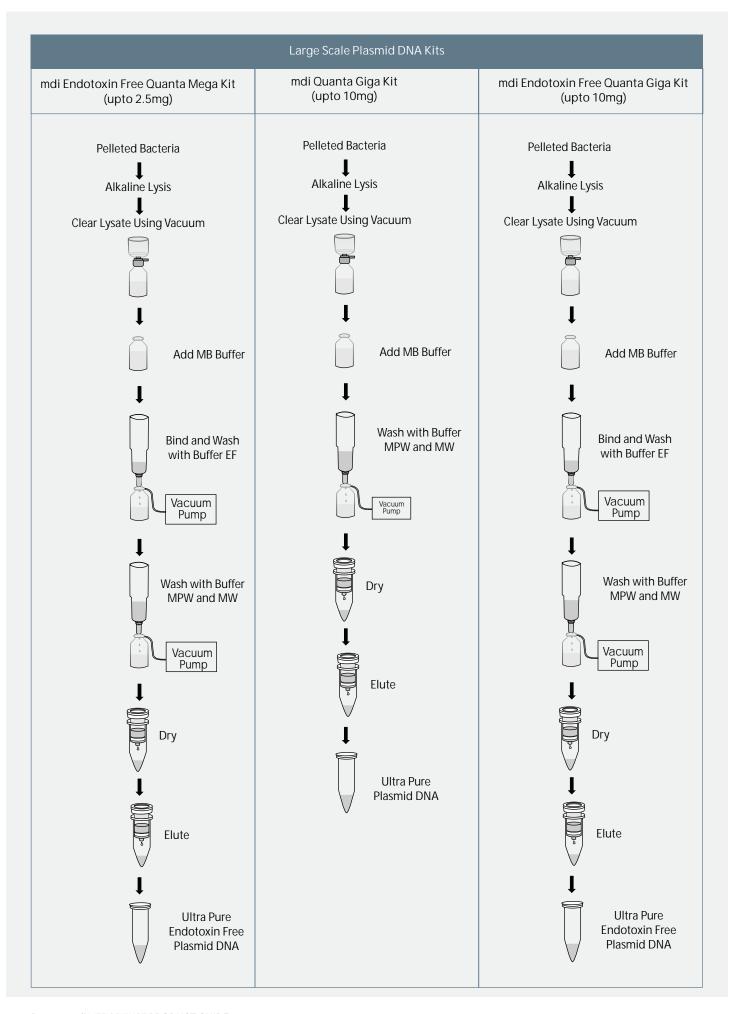
Selection Chart

	pDNA Isolation kits	Purity	Culture volume	Yields	Processing Time	Endotoxin Levels	Applications
A Kits	FastLyse pDNA Miniprep Kit	1.8-2.0	600µl – 5 ml	Upto 25µg	10 minutes	NA	In-Vitro Transcription
smid DN	pDNA Miniprep Kit	1.8-2.0	1 ml -5ml	Upto 25µg	30 minutes	NA	• In-Vitro Translation
Scale Plasmid DNA Kits	Endotoxin Free pDNA Miniprep Kit	1.8-2.0	1ml - 5 ml	Upto 25µg	30 minutes	< 0.1 EU/μg	High quality sequencing
Small S	Express 96 well pDNA Kit	1.8-2.0	1 ml -5ml	Upto 25µg/well	45 minutes	NA	• Cloning
	Quanta Midi Kit	1.8-2.0	25 – 35 ml	Upto 250µg	20 minutes	NA	Probe Generation
	Quanta Maxi Kit	1.8-2.0	100-130ml	Upto 1000µg	25 minutes	NA	PCR Restriction Digestion
A Kits	Quanta Mega Kit	1.8-2.0	500 ml	Upto 2500µg	40 minutes	NA	Bacterial
Smid DN	Quanta Giga Kit	1.8-2.0	2.5 litre	Upto 10000µg	1hr	NA	Transformation
Large Scale Plasmid DNA Kits	Endotoxin Free Quanta Midi Kit	1.8-2.0	25-35 ml	Upto 250µg	20 minutes	< 0.1 EU/μg	Ligation Transfection
Large (Endotoxin Free Quanta Maxi Kit	1.8-2.0	100-130ml	Upto 1000µg	25minutes	< 0.1 EU/μg	•Gene Silencing
	Endotoxin Free Quanta Mega Kit	1.8-2.0	500ml	Upto 2500µg	40 minutes	< 0.1 EU/μg	Microinjection
	Endotoxin Free Quanta Giga Kit	1.8-2.0	2.5 litre	Upto 10,000µg	1hr	< 0.1 EU/μg	Library construction

	Small Scale Plasmid DNA	Kits
mdi Fastlyse pDNA Miniprep Kit (upto 25µg)	mdi pDNA Miniprep Kit (upto 25µg)	mdi Endotoxin Free pDNA Miniprep Kit (upto 25µg)
Overnight Bacterial Culture Lyse & Neutralize	Overnight Bacterial Culture Pellet Formation	Overnight Bacterial Culture Pellet Formation
Bind & Wash	Resuspend Lyse Neutralize	Resuspend Lyse Neutralize
Elute	Bind	Remove Supernatent in separate tube and add buffer MB
Ultra Pure pDNA	Wash Dry	Bind
	Elute	Wash with Buffer MPW, MW and EF Separately
	Ultra Pure pDNA	Ultra Pure Endotoxin Free pDNA
		Elute







FastLyse pDNA Miniprep Kit

The Next Level in pDNA Isolation (In just 10 minutes)

Unique Performance Advantages

- Fastest pDNA isolation in 10 minutes
- ♦ Works with very low culture volumes (600µI)
- No pellet formation and resuspension steps
- Very high binding capacity of upto 50µg
- Very high yields with low elution volumes
- Very high within lot and inter lot consistency



Direct pDNA isolation from 600µl culture without any pelleting and resuspension. A unique soft pellet formation step allows ideal lysis conditions resulting in very high yield even with larger culture volumes upto 5ml, helps reduce process time and makes it ideal for plasmid screening.

Downstream Applications

- Library construction
- Restriction Digestion
- ◆ Cloning
- Ligation
- Bacterial Transformation
- PCR
- Automated Sequencing
- Probe Generation
- Microinjection

Specifications

pDNA Binding Capacity: 50 μg

pDNAYield: Upto 25 μg

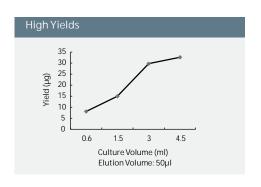
♦ Minimum Culture Volume: 600 µl

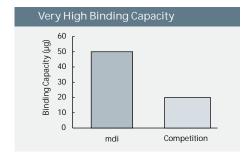
◆ Elution Volume: ≥30 µl
 ◆ Total Time Taken: 10 minutes

Purity

Ultrapure Plasmid DNA: $A_{260}/A_{280} = 1.8-2.0$







Ту	pe
Туре	Code
FastLyse pDNA Miniprep kit	FLPK



XX

XX

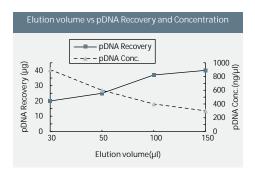
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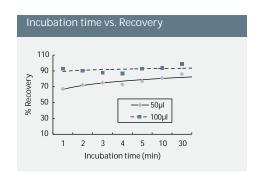
Pack	Size
Pack Size	Code
50	0050
250	0250

FLPK	XX	XX	XX	Х	0250



Culture Volume vs. pDNA Recovery and Concentration 30 800 pDNA Recovery (µg) (lng/ln) 25 600 20 400 15 10 200 5 0 5 Culture Volume(ml) Elution Volume: 50µl





pDNA Miniprep Kit

(In Less Than 30 Minutes)

Type Available

- pDNA Miniprep Kit
- ➤ Endotoxin Free pDNA Miniprep Kit: Certified for very low endotoxin levels (<0.1 Eu/µg)

Unique Performance Advantages

- ♦ High Binding Capacity ≥ 25µg
- ◆ High pDNA yields and Purity
- Highly Concentrated Yields in low elution volumes
- No Precipitation required for desalting
- ◆ High within lot and lot to lot consistency

Downstream Applications

- Automated Fluorescent Sequencing
- ◆ Radioactive Sequencing
- Restriction Digestion
- Transformation/Transfection
- Cloning
- ◆ PCR
- Ligation
- ◆ Probe Generation
- Microinjection



Specifications

pDNA Binding Capacity : \geq 25 μ g

pDNA Yield: Upto 25 µg Culture Volume: 1-5 ml

 $\begin{aligned} & \mbox{Minimum Elution Volume: } \geq 30\,\mu\mbox{I} \\ & \mbox{Total Time Taken: } 25\,\mbox{minutes} \end{aligned}$

Purity

Ultrapure Plasmid DNA: $A_{260} / A_{280} = 1.8-2.0$

ORDERING NFORMATION

Турє	9
Туре	Code
pDNA Miniprep Kit	MIPK
Endotoxin free pDNA Miniprep kit	EFPK



XX

XX

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Pack	Size
Pack Size	Code
50	0050
250	0250

MIPK	XX	xx	XX	Х	0250

Express 96 well Miniprep pDNA Kit

(In Less Than 45 Minutes)

Unique Performance Advantages

- Multiple (96) samples processing
- Very high binding capacity
- ◆ No precipitation required for desalting
- Highly concentrated, ultrapure pDNA isolation in very low elution volumes
 High within lot as well as lot to lot consistency

Downstream Applications

- Restriction Enzyme Digestion
- Library Screeining
- ♦ In vitro Translation
- ◆ Sequencing
- ◆ Ligation
- Transformation / Transfection
- PCR

Specifications

pDNA Binding Capacity/WeII : \geq 25 µg

pDNAYield/Well: upto 25 µg Culture Volume/Well: 1-5 ml

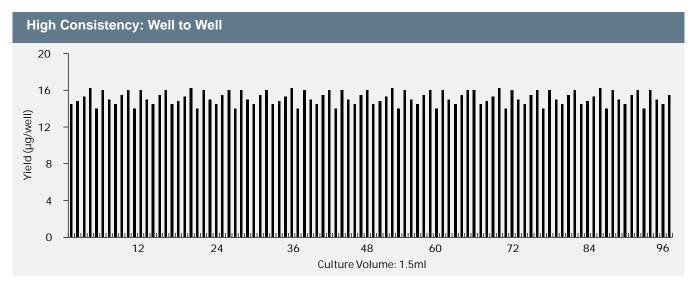
Minimum Elution Volume/Well: 75 μl

Total Time Taken: 45 minutes





Purity $\label{eq:ultrapure Plasmid DNA: A200} \mbox{ A}_{260} \mbox{ / A}_{260} = 1.8 \mbox{ -} 2.0$





Pack	Size
Pack Size	Code
4	0004

EMPK XX XX XX 0004



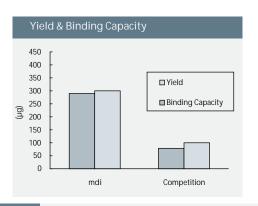
Unique high binding capacity midi spin column



Vacuum based, no gravitational waiting



Concentrated pDNA, no Isopropanol precipitation



Quanta Midi Kits

(In Just 30 Minutes)

Type Available

- Quanta Midi Kit
- ➤ Endotoxin Free Quanta Midi Kit : Certified for very low endotoxin levels (<0.1 Eu/µg)

Unique Performance Advantages

- Fastest Midiprep for pDNA Isolation
- Very high binding capacity Upto 350µg
- No gravitational waiting
- Simple filtration to remove cell debris; No centrifugation
- No precipitation required for concentration
- Higher yields with low culture volume
- Highly concentrated, ultrapure pDNA isolation in very low elution volumes
- High within lot as well as lot to lot consistency

Unique Technology

Combines the use of a specially designed filtration devices and tube extender to obtain high purity pDNA in just 30 minutes. No desalting is required to obtain ultrapure pDNA yields.

Downstream Applications

- ◆ Automated Sequencing
- Restriction Digestion
- ◆ Cloning
- Transfection / Transformation
- PCR
- ◆ Ligation
- Microinjection
- ◆ Probe Generation

Purity

Ultrapure Plasmid DNA: $A_{260} / A_{280} = 1.8-2.0$

Specifications				
High Copy Low Copy Plasmid Plasmid				
Binding capacity of membrane (ds DNA)	350 µg	350 µg		
Recovery	90%	90%		
Maximum culture volumes	25-35 ml	50 ml		
Expected yield of plasmid	150-250 μg	30-100 μg		

ORDERING JFORMATION

Туре		
Type	Code	
Quanta midi kit	QDPK	
Endotoxin free	QDEK	

XX

XX

XX

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Pack Size		
Pack Size	Code	
25	0025	
100	0100	

QDPK	XX	XX	XX	Х	0100

Quanta Maxi Kits

(In Just 30 Minutes)

Type Available

- Quanta Maxi Kit
- ➤ Endotoxin Free Quanta Maxi Kit : Certified for very low endotoxin levels (<0.1 Eu/µg)

Unique Performance Advantages

- Fastest Maxiprep for pDNA Isolation
- Very high binding capacity Upto 1200 μg
- No gravitational waiting
- Simple filtration to remove cell debris; No centrifugation
- No precipitation required for concentration
- ◆ Higher yields with low culture volume
- Highly concentrated, ultrapure pDNA isolation in very low elution volumes
- ◆ High within lot as well as lot to lot consistency



Combines the use of a specially designed filtration devices and tube extender to obtain high purity pDNA in just 30 minutes. No desalting is required to obtain ultrapure pDNA yields.



Unique high binding capacity Maxi spin column

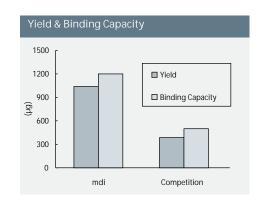
Downstream Applications

- Automated Sequencing
- Restriction Digestion
- ◆ Cloning
- Transfection / Transformation
- ◆ PCR
- Ligation
- Microinjection
- ◆ Probe Generation

Purity

Ultrapure Plasmid DNA: $A_{260} / A_{280} = 1.8-2.0$

Specifications				
High Copy Low Copy				
	Plasmid	Plasmid		
Binding capacity of membrane (ds DNA)	1200 µg	1200 µg		
Recovery	90%	90%		
Maximum culture volumes	130 ml	200 ml		
Expected yield of plasmid	upto 1000 µg	upto 250 µg		



Туре		
Туре	Code	
Quanta Maxi kit	QXPK	
Endotoxin free Quanta Maxi kit	QXEK	

XX

XX

XX

Х

Pack Size		
Pack Size	Code	
10	0010	
25	0025	

QXPK	XX	XX	XX	Х	0025





Purity Ultrapure Plasmid DNA: $A_{260} / A_{280} = 1.8-2.0$

Quanta Mega Kits

(In Less than 40 Minutes)

Type Available

- Quanta Mega Kit
- Endotoxin Free Quanta Mega Kit : Certified for very low endotoxin levels (<0.1 Eu/μg)</p>

Unique Performance Advantages

- Fastest Megaprep for pDNA Isolation
- ♦ Very high binding capacity Upto 3000µg
- No gravitational waiting
- Simple filtration to remove cell debris; No centrifugation
- No precipitation required for concentration
- Higher yields with low culture volume
- Highly concentrated, ultrapure pDNA isolation; in very low elution volumes
- ◆ High within lot as well as lot to lot consistency

UniqueTechnology

Combines the use of a specially designed filtration device and tube extender to obtain high purity pDNA in just 40 minutes. No desalting is required to obtain ultrapure pDNA yields.

Downstream Applications

- ◆ Automated Fluorescent Sequencing
- Radioactive Sequencing
- Restriction Digestion
- Transfection (with highly sensitive mammalian cell lines)
- ◆ Cloning
- ◆ PCR

Specifications

	High Copy	Low Copy
	Plasmid	Plasmid
Capacity of Tube Extender (ml)	300	300
Binding Capacity of Spin Column (ì g)	3000	3000
Recovery	90%	90%
Maximum culture volumes (ml)	500	500
Expected yield of plasmid (µg)	upto 2500	upto 2500

ORDERING INFORMATION

Туре		
Туре	Code	
Quanta Mega kit	QMPK	
Endotoxin free Quanta Mega kit	QMEK	

xx xx

XX

Х

Pack Size		
Pack Size	Code	
2	0002	
4	0004	
10	0010	

QMEK	XX	XX	XX	Х	0010
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Quanta Giga Kits

(In <50 Minutes)

Type Available

- Quanta Giga Kit
- ➤ Endotoxin Free Quanta Giga Kit: Certified for very low endotoxin levels (<0.1 Eu/µg)

Unique Performance Advantages

- ◆ Fastest Gigaprep for pDNA Isolation
- Very high binding capacity Upto 12000 μg
- ◆ No gravitational waiting
- Simple filtration to remove cell debris; No centrifugation
- No precipitation required for concentration
- Higher yields with low culture volume
- Highly concentrated, ultrapure pDNA isolation; in very low elution volumes
- High within lot as well as lot to lot consistency

Unique Technology

Combines the use of a specially designed filtration devices and tube extender to obtain high purity pDNA in 1 hour. No desalting is required to obtain ultrapure pDNA yields.

Downstream Applications

- ◆ Automated Fluorescent Sequencing
- Radioactive Sequencing
- Restriction Digestion
- Transfection (with highly sensitive mammalian cell lines)
- Cloning
- ◆ PCR



	High Copy Plasmid	Low Copy Plasmid
Capacity of Tube Extender (ml)	300	300
Binding Capacity of Spin Column (i g)	12,000	12,000
Recovery	90%	90%
Maximum culture volumes (litre)	2.5	2.5
Expected yield of plasmid (µg)	up to 10,000 ì g	up to 10,000 ì g





Purity
Ultrapure Plasmid DNA: $A_{260} / A_{280} = 1.8-2.0$

Туре		
Туре	Code	
Quanta Giga kit	QGPK	
Endotoxin free Quanta kit	QGEK	

XX

XX

XX

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Pack Size		
Pack Size	Code	
2	0002	
4	0004	
10	0010	

Fxa	m	n	Δ.

OGEK	VV	VV	VV	V	0010
QGEK	XX	XX	XX	Х	0010

Genomic DNA Isolation Kits

gDNA isolation is required for a variety of applications such as genomic sequencing, transfection and microinjection. Scientists are naturally concerned not only about the quality and yields, but also the shelf life, consistency and processing time.

mdi offers well characterised and validated Genomic DNA Miniprep Kits which reproducibly provide ultrapure gDNA from a wide variety of samples such as plant tissues, mammalian tissue, blood, bacteria and cultured cells.

Selection Chart

San	nple Types	Purity	Amount of Starting Material	^l Yields	Processing Time	Applications
ONA Kit	Plant gDNA Miniprep Kit	1.7-1.9	100 mg wet weight 20 mg dry weight	Upto 30µg	30 minutes	In-Vitro TranscriptionIn-Vitro Translation
Plant gDNA Kit	Express 96 well Plant pDNA Kit	1.7-1.9	50 mg wet weight/well 10 mg dry weight/well	Upto 30µg	30 minutes	Automated SequencingCloningSouthern Blotting
	Mammalian Tissue - Liver - Kidney - Lung - Spleen - Mouse Tail	1.8-2.0	25mg	10 -30µg	< 1hr	• AFLP • RFLP • RAPD • PCR
ep Kit	Animal Blood	1.8-2.0	200µl	Upto 12µg	<1hr	Restriction Digestion
gDNA Miniprep Kit	Bacteria - Gram Positive - Gram Negative	1.8-2.0	2 x 10° cells	Upto 22µg	45 minutes	Transformation Ligation
5,	Cultured Cells	1.8-2.0	5 x 10° cells	Upto 25µg	<1hr	• Transfection
	Stool gDNA Miniprep Kit	1.8-2.0	180 - 200mg	Upto 100µg	<1hr	• SNP Genotyping
	Medi G- Blood gDNA Miniprep Kit	1.8-2.0	200μΙ	Upto 25µg	<1hr	Microsatellite analysis
	Medi G-M Blood gDNA Microprep Kit	1.8-2.0	200µl	Upto 25µg	<1hr	• RT-PCR

	gDNA Miniprep Kits			
mdi Genomic DN	NA Miniprep Kit	mdi Plant (gDNA Miniprep Kit	mdi Express 96 well Plant gDNA Kit
Sample	Lyse	Plant Tissue	Grind Lyse Precipitate	Plant Tissue Grind Plant Tissue
	Bind		Centrifuge through mdi Shredder	Lyse and Precipitate Polysaccharides
	Wash 2X		Add Binding Buffer and transfer to mdi plant mini spin column	Prepare Clear Lysate and Add Binding Buffer
	Dry with open lid		Bind DNA	Express Prep Plate Find, Wash and Dry
	Elute		Wash 2X and dry	Vacuum Elute Vacuum
	Liltro Duro a DMA		Elute	Microtubes for Ultra Pure gDNA
V	Ultra Pure gDNA		Ultra Pure gDNA	Microtube Rack

	gDNA Miniprep Kits	
mdi Stool gDNA Miniprep Kit	mdi Medi G Blood gDNA Miniprep Kit	mdi Medi G-M Blood gDNA Microprep Kit
Sample	Sample	Sample
Lyse	Lyse	Lyse
Bind	Bind	Bind
P	P	P
Wash 2X	Wash 2X/Dry	Wash 2X/Dry
P		P
Dry	Elute	Elute
		•
Elute	Ultra Pure gDNA	Ultra Pure gDNA
▼ Ultra Pure gDNA		

gDNA Miniprep Kit

(for Mammalian Tissue, Blood, Bacterial Cells and Cultured Cells)

Unique Performance Advantages

- ♦ Very high binding capacity Upto 50µg
- ♦ Higher yields
- No precipitation step for high purity gDNA.
- Suitable for all type of downstream applications

Downstream Applications

- ◆ PCR
- ◆ Southern Blotting
- ♦ RAPD Analysis
- AFLP Analysis
- RFLP Analysis
- In-VitroTranscription
- Restriction Digestion
- Transformation
- Transfection
- ◆ SNP Genotyping
- Microsatellite Analysis
- ◆ RT-PCR
- Gene Silencing
- ◆ Microinjection
- Probe Generation

Specifications

Maximum Amount of Tissue: 25 mg Maximum bacterial cells: 2 x 10°

 $\label{eq:maximum} Maximum volume of blood sample: 200 \mu I \\ Maximum amount of cultured cells: 5 x 10^6 \\ Capacity of column reservoir: 700 \mu I \\$

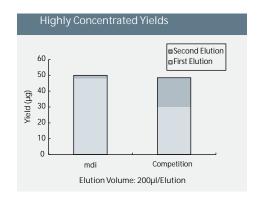
DNA Binding capacity: 50 µg

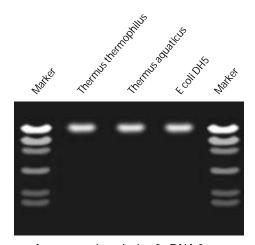
Recovery:80%

Minimum elution volume: 200µl

Purity

Ultrapure genomic DNA: $A_{260} / A_{280} = 1.8-2.0$





Agarose gel analysis of gDNA from different bacteria purified with mdi gDNA Miniprep Kit . M: lambda-Hindlll

Туре		
Туре	Code	
gDNA Miniprep Kit	CTGK	







X

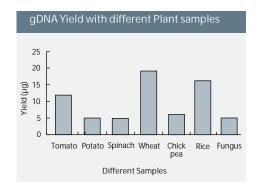
Pack Size	
Pack Size	Code
50	0050
250	0250

Example:

CTGK	XX	XX	XX	Х	0250

ORDERING INFORMATION

High Yields 15 12 19 9 0 mdi Competition (Tomato Leaves)



Plant gDNA Miniprep Kit

(In <1 hour)

Unique Performance Advantages

- Very high binding capacity Upto 50µg
- High yields with different plant tissue
- No precipitation step for high purity gDNA Suitable for all type of downstream applications

Downstream Applications

- ◆ PCR
- ♦ Southern Blotting
- ♦ RAPD Analysis
- ◆ AFLP Analysis
- ◆ RFLP Analysis
- ♦ In-Vitro Transcription
- Restriction Digestion
- Transformation
- Transfection
- ♦ SNP Genotyping
- Microsatellite Analysis
- ◆ RT-PCR
- ◆ Gene Silencing
- Microinjection
- Probe Generation

Specifications

Maximum Amount of Starting Material: 100 mg wet weight, 20 mg dry weight

Capacity of column Reservoir : 700µl

DNA Binding capacity : $50\,\mu g$

Recovery:80%

Elution volume: 100µl

Purity

Ultrapure Genomic DNA: $A_{260}/A_{280} = 1.7-1.9$



Туре		
Туре	Code	
Plant gDNA Miniprep Kit	PTGK	







Χ

Pack Size			
Pack Size	Code		
50	0050		
250	0250		

PTGK XX XX XX 250

Express 96 well Plant gDNA Kit

(In <2 hours)

Unique Performance Advantages

- Easy to use vacuum based protocol.
- Very high binding capacity Upto 50μg/well
- High yields with different plant tissue
- No precipitation step for high purity gDNA.
- Suitable for all type of downstream applications

Downstream Applications

- ◆ Automated Fluorescent Sequencing
- Radioactive Sequencing
- ◆ Southern Blotting
- ◆ Cloning
- Quantitative, Real-Time PCR
- RAPD, AFLP, RFLP Analysis
- Microsatellite Analysis
- SNP Genotyping
- ◆ PCR
- Restriction digestion

Specifications

Maximum Amount of Tissue/well: 50mg wet weight

10mg dry weight

Capacity of well reservoir: 1ml DNA Binding capacity: 50 µg

Recovery:80%

Minimum elution volume: 100µl

Purity

Ultrapure genomic DNA: $A_{260}/A_{280} = 1.7-1.9$



Тур	e	XX	XX	XX	Х	Pack	Size
Туре	Code					Pack Size	Code
Express 96 Plant gDNA Miniprep Kit	EPGK					4	0004
	,						

Example:	EPGK	XX	XX	XX	Х	0004

Marker

Agrose gel analysis of gDNA from different stool samples purified with mdi stool gDNA Miniprep Kit.

Marker: lambda Hind III

Stool gDNA Miniprep Kit

Unique Performance Advantages

- Very high binding capacity Upto 100μg
- High yields with different stool samples
- No precipitation step for high purity gDNA

Downstream Applications

- Automated Fluorescent Sequencing
- Radioactive Sequencing
- Restriction Digestion
- ◆ Cloning
- ◆ PCR

Specifications

Weight of Stool Sample: 180 - 220 mg wet weight

Capacity of column reservoir: 700µl

Binding capacity of membrane (ds DNA): 100 µg

Recovery: 80% Elution volume: 200µl Typical yield: 15-60 µg

Typical DNA concentration: 75-300 hg/µl

Purity

Ultrapure genomic DNA: $A_{260}/A_{280} = 1.8-2.0$

ORDERING INFORMATION

Туре			
Type Code			
Stool gDNA Miniprep Kit STGK			

xx xx

х

XX

X

Pack Size			
Pack Size	Code		
50	0050		
250	0250		

STGK	XX	XX	XX	Х	0250
------	----	----	----	---	------

Medi G Blood gDNA Miniprep Kit

Unique Performance Advantages

- Very high binding capacity Upto 50µg
- No precipitation step for high purity gDNA.
- Suitable for all type of downstream applications

Downstream Applications

- Automated Fluorescent Sequencing
- Radioactive Sequencing
- ◆ PCR

Specifications

Maximum Volume of Blood Sample: 200µl Capacity of column reservoir : 700µl

Binding capacity of membrane (ds DNA): 50 µg

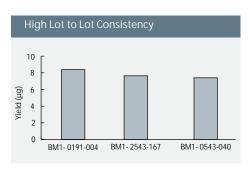
Recovery: 80% Elution volume: 200µl

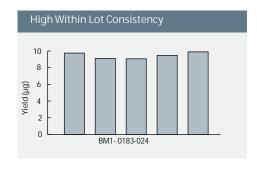
Purity

Ultrapure Plasmid DNA: $A_{260} / A_{280} = 1.8-2.0$



Performance





Туре			
Туре	Code		
Medi G Blood gDNA Miniprep kit	BMGK		

XX

XX

XX

Х

Pack Size			
Pack Size	Code		
50	0050		
250	0250		

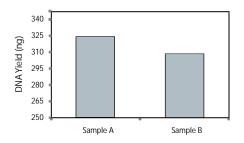
BMGK	XX	XX	XX	Х	0250



Performance (Dried Blood Spots)

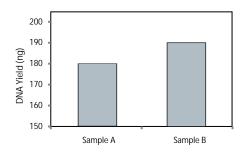
C. Yield for blood treated with anti-coagulant

No. of Circels : 6 Elution Volume: 150µl



D. Yield for untreated blood

No. of Circels: 6 Elution Volume: 150µl



Medi G-M Blood gDNA Miniprep Kit

(For whole Blood and Dry Blood spots)

Unique Performance Advantages

- Very high binding capacity Upto 10μg
- No precipitation step for high purity gDNA.
- Suitable for all type of downstream applications

Downstream Applications

- ◆ Automated Fluorescent Sequencing
- ◆ Radioactive Sequencing
- ◆ PCR

Specifications

Maximum Volume of Blood Sample: 200µl Maximum Number of Dry blood spot

punches/Circles (3mm diameter): 6 Capacity of column reservoir: 700µl DNA Binding capacity of membrane: 10 µg

Recovery:80%

Elution volume: 60 - 200µl.

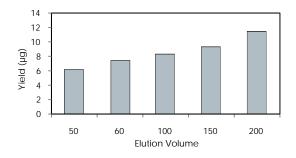
(60µl for higher concentration of genomics DNA)

Purity

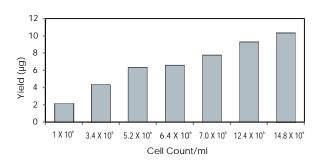
Ultrapure Plasmid DNA: $A_{260} / A_{280} = 1.8-2.0$

Performance(Whole Blood)

A. Elution Volume vs Yield (Leucocyte Count = 7.1 X 10⁶/ml)



B. Leucocyte Count vs Yield (Elution Volume = 60µl)



ORDERING NFORMATION

Туре			
Туре	Code		
Medi G-M Blood gDNA Miniprep kit	BRGK		

XX XX

XX X

Pack Size		
Pack Size	Code	
50	0050	
250	0250	

Example: BRGK XX XX XX X 0250

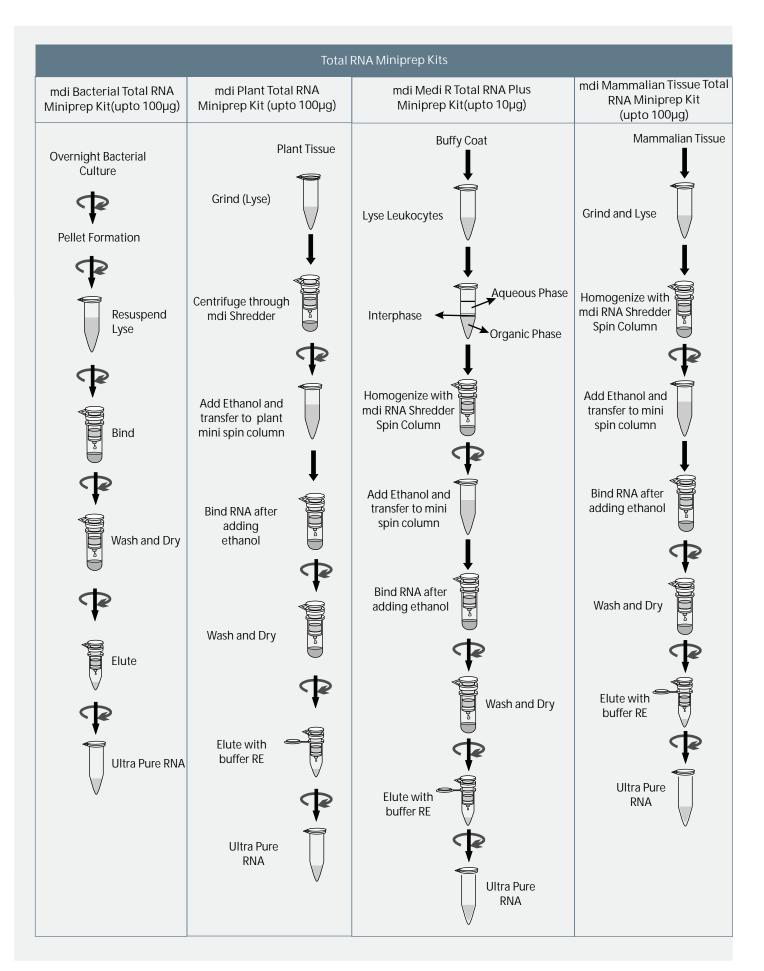
RNA Isolation Kits

mdi offers a range of RNA Miniprep Kits are designed to have a fast, easy and economical isolation of high purity total RNA from bacterial cultures (both from Gram Positive and Gram Negative bacteria), plant tissue, mammalian tissue and cultured cells, and leukocytes.

The mdi RNA Miniprep Kits are targeted to purify RNA from small amounts of starting material. This technology does away with phenol extraction (associated with desalting) and ethanol precipitation (associated with anion exchange based purification).

Selection Chart

RNA	Isolation Kits	Purity	Amount of Starting Material	Processing Time	Elution Volume	Applications
	Bacterial Total RNA Miniprep Kit	1.9-2.1	5.8 x 10 ⁸ - 7.5 x 10 ⁸	< 30 Minutes	50µl	
Total RNA Miniprep Kits	Plant Total RNA Miniprep Kit	1.9-2.1	100mg	< 30 Minutes	50µІ	 RT-PCR and Real Time RT-PCR Differential Display cDNA Synthesis
	Medi R Total RNA Plus Miniprep Kit	1.9-2.1	1x10 ⁷ leukocytes	< 30 Minutes	50μΙ	 Northern, Dot, and Slot Blot Analysis Primer Extension RNase/S1 Nuclease Protection
	Mammalian Tissue Total RNA Miniprep Kit	1.9-2.1	25-30mg	< 30 Minutes	50µI	Micro Array



Bacterial Total RNA Miniprep Kits

(up to 100µg)

Unique Performance Advantages

- Easy purification of large sized fragments without shearing
- No precipitation step for high purity RNA
- ◆ Highly concentrated RNA yields in low elution volume

Downstream Applications

- ◆ RT-PCR and Real Time RT-PCR
- Differential Display
- cDNA Synthesis
- Northern, Dot, and Slot Blot Analysis
- Primer Extension
- Micro Array

Specifications

Number of bacterial cells: 5.8x108 - 7.5x108

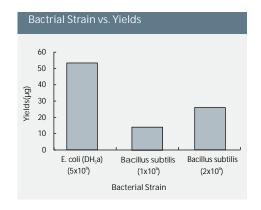
RNA Binding Capacity : ≥100µg Capacity of column reservoir : 700µl

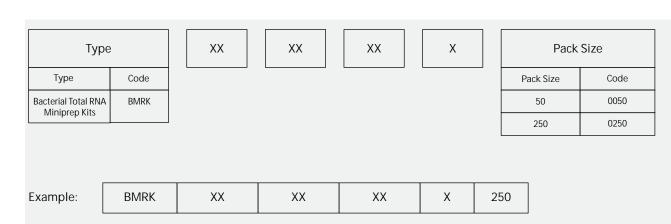
Recovery:80%

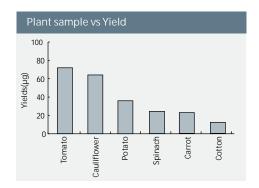
Minimum elution volume: 50 µl Total time taken: <30 Minutes

Purity

Ultrapure RNA: $A_{260}/A_{280} = 1.9-2.1$







Plant Total RNA Miniprep Kits

(up to 100µg)

Unique Performance Advantages

- Easy purification of large sized fragments without shearing
- No precipitation step for high purity RNA
- Highly concentrated RNA yields in low elution volume

Downstream Applications

- ◆ RT-PCR and Real Time RT-PCR
- Differential Display
- cDNA Synthesis
- Northern, Dot, and Slot Blot Analysis
- Primer Extension
- Micro Array

Specifications

Maximum weight of sample: 100mg Capacity of column reservoir: 700µl

Binding capacity of membrane (ds DNA) : \geq 100 μ g

Recovery:80%

Minimum elution volume: 50 µl Total time taken: < 30 Minutes

Purity

Ultrapure RNA: $A_{260}/A_{280}=1.9-2.1$



Тур	oe e	XX	XX	XX	Х		Pack	Size
Туре	Code						Pack Size	Code
Plant Total RNA Miniprep Kit	PMRK						50	0050
Will liprop Kit							250	0250
								_
Example:	PMRK	XX	XX	XX	Х	02	50	

Medi R Total RNA Plus Miniprep Kits

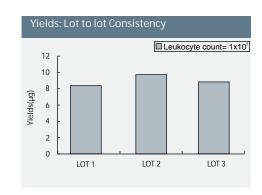
(Upto 10µg)

Unique Performance Advantages

- Easy purification of large sized fragments without shearing
- No precipitation step for high purity RNA

Downstream Applications

- 1. RT-PCR and Real Time RT-PCR
- 2. Differential Display
- 3. cDNA Synthesis
- 4. Northern, Dot, and Slot Blot Analysis
- 5. Primer Extension
- 6. Micro Array

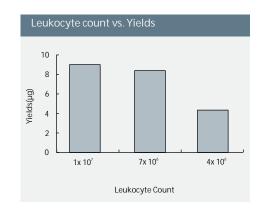


Specifications

Maximum Leukocyte Count: 1x10⁷ RNA Binding Capacity: Up to 10μg Capacity of column reservoir: 750μl

Recovery:80%

Minimum elution volume: 50 µl Total time taken: <30 minutes



Purity

Ultrapure RNA: $A_{260}/A_{280}=1.9-2.1$

Тур	e	XX	XX	XX	Х		Pack	Size
Туре	Code						Pack Size	Code
Medi R Total RNA Plus Miniprep Kit	TPRK						50	0050
							250	0250
							_	
Example:	TPRK	XX	XX	XX	Х	0250		

Mammalian Tissue Total RNA Miniprep Kits

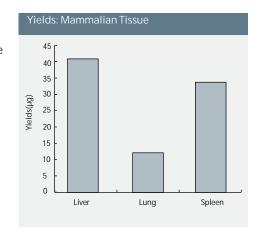
(Upto 100µg)

Unique Performance Advantages

- Easy purification of upto 100µg of high purity total RNA from mammalian tissue and cultured cells
- No precipitation step for high purity RNA



- 1. RT-PCR and Real Time RT-PCR
- 2. Differential Display
- 3. cDNA Synthesis
- 4. Northern, Dot, and Slot Blot Analysis
- 5. Primer Extension
- 6. Micro Array



Specifications

Maximum Tissue Sample : 25-30mg RNA Binding Capacity: Up to 100µg Capacity of column reservoir: 750µl

Recovery:80%

Minimum elution volume: 50 µl Total time taken: <30 minutes

Purity

Ultrapure RNA: $A_{260}/A_{280} = 1.9-2.1$



Тур	е
Туре	Code
Mammalian Tissue Total RNA Miniprep Kit	MTRK



XX

XX

Х

Pack	Size
Pack Size	Code
50	0050
250	0250

MTRK	XX	XX	XX	Χ	0250
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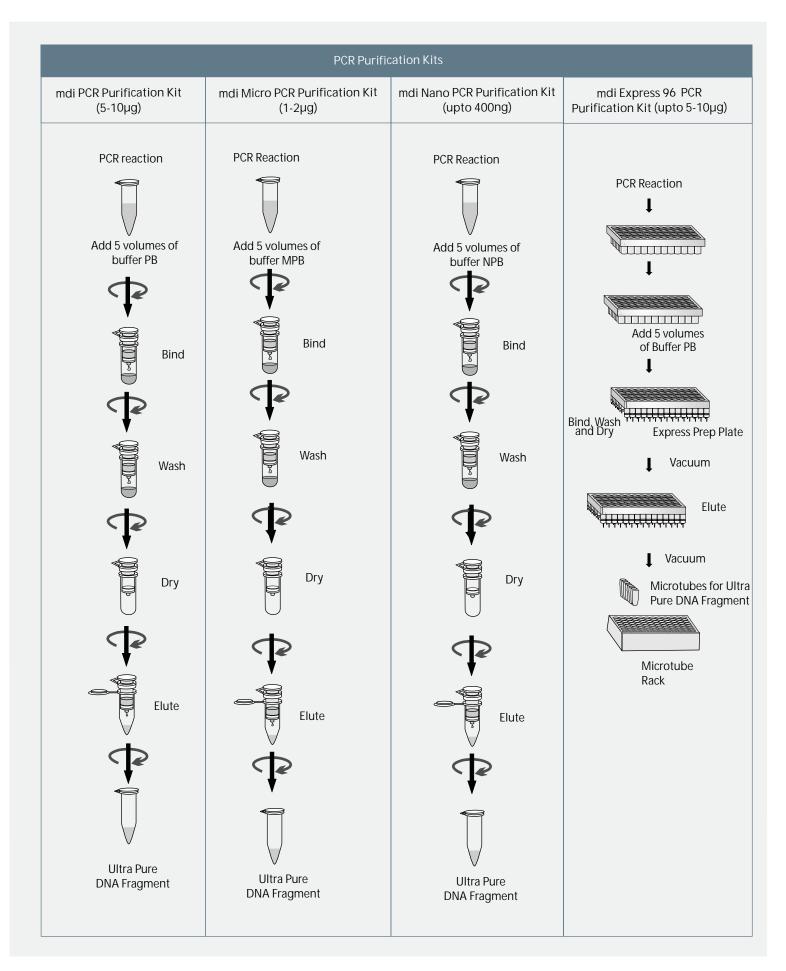
PCR Purification and Gel Extraction Kits

mdi offers PCR Purification Kits for efficient removal of contaminants such as primers, enzymes and salts and Gel Extraction Kits to purify very small quantities of even large fragment size DNA from upto 400mg of gel slices.

The following selection chart will help you choose the most suitable kit for your experiment.

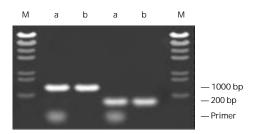
Selection Chart

DNA	Clean up Kits	Purity	DNA Quantity	Recovered DNA Fragment	Elution Volume	Applications
PCR Purification Kits	PCR Purification Kit	1.8-2.0	5-10µg	100bp -10kb	30µl	Transfection In-Vitro Transcription
	Micro PCR Purification Kit	1.8-2.0	1-2µg	70bp -4kb	10µІ	In-Vitro TranslationHigh quality sequencing
	Nano PCR Purification Kit	1.8-2.0	upto 400ng	70bp -4kb	5µl	Microarray Analysis Cloning
	Express 96 PCR Purification Kit	1.8-2.0	5 - 10μg	100bp -10kb	100µl	PCR Gene Silencing
	Gel Extraction Kit	1.8-2.0	5-10µg	70bp -10kb	30µІ	Probe GenerationMicroinjectionRestriction Digestion
Gel Extraction Kits	Micro Gel Extraction Kit	1.8-2.0	1-2µg	70bp -4kb	10µІ	Demanding enzymatic modificationsLibrary Construction
	Nano Gel Extraction Kit	1.8-2.0	upto 400ng	70bp -4kb	5µІ	Bacterial Transformation Ligation



	Gel Extraction Kits	
mdi Gel Extraction Kit (5-10µg)	mdi Micro Gel Extraction Kit (1-2μg)	mdi Nano Gel Extraction Kit (upto 400ng)
Solubilized Gel Slice	Solubilized Gel Slice	Solubilized Gel Slice
Bind	Bind	Bind
Wash	Wash	Wash
Dry	Dry	Dry
Elute		
Elute	Elute	Elute
Ultra Pure DNA Fragment	Ultra Pure DNA Fragment	Ultra Pure DNA Fragment





Complete primer removal using mdi PCR Purification Kit a: Before purification b: After purification M: Marker

PCR Purification Kit

(5-10µg)

Unique Performance Advantages

- Easy purification of large sized fragments without shearing
- No precipitation step for high purity DNA
- Highly concentrated DNA yields in low elution volume

Downstream Applications

- ◆ Transfection
- In-Vitro Transcription
- ◆ In-Vitro Translation
- ♦ High quality sequencing
- ◆ Microarray Analysis
- ◆ Cloning
- ◆ PCR
- ◆ Gene Silencing
- ◆ Probe Generation
- ◆ Microinjection
- Restriction Digestion
- Demanding enzymatic modifications
- Library Construction
- Bacterial Transformation
- Ligation

Specifications

Capacity of column reservoir: 800µl

Binding capacity of membrane (ds DNA): 10 µg

Recovery:90-95%

Recovered DNA fragment: (100 bp -10 kb)

Minimum elution volume : 30 µl Total eluate volume : 28 µl

Purity

Ultrapure Plasmid DNA: $A_{260} / A_{280} = 1.8 - 2.0$

ORDERING INFORMATION

Ту	pe
Туре	Code
PCR Purification Kit	SPCK

XX

XX

XX

Х

Pack Size				
Pack Size	Code			
50	0050			
250	0250			

SPCK	XX	XX	XX	Х	0250

Micro PCR Purification Kit

$(1-2\mu g)$

Unique Performance Advantages

- Easy purification of large sized fragments without shearing
- No precipitation step for high purity DNA
- Highly concentrated DNA yields in very low elution volume

Downstream Applications

- ◆ Transfection
- ◆ In-Vitro Transcription
- ◆ In-Vitro Translation
- ◆ High quality sequencing
- Microarray Analysis
- Cloning
- ◆ PCR
- ◆ Gene Silencing
- Probe Generation
- Microinjection
- Restriction Digestion
- Demanding enzymatic modifications
- ◆ Library Construction
- ◆ Bacterial Transformation
- ◆ Ligation

Specifications

Capacity of column reservoir: 800µl

Binding capacity of membrane (ds DNA): 5 µg

Recovery: 80%

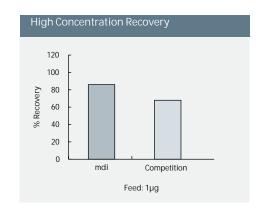
Recovered DNA fragment: (70 bp - 4 kb)

Minimum elution volume: 10 µl

Total eluate volume: 9 µl

Purity

Ultrapure Plasmid DNA: $A_{260}/A_{280}=1.8-2.0$



T	ype	XX	XX	XX	Х		Pa
Туре	Code						Pack Size
Micro PCR Purification Kit	MPCK						50
							250
		1					
Example:	MPCK	XX	XX	XX	Х	0250	0
						1	

Pack Size

Code

0050 0250

High Concentration Recovery 120 100 2 80 80 60 61.6 ng 107.6 ng Feed Elution Volume: 5µl

Nano PCR Purification Kit

(upto 400ng))

Unique Performance Advantages

- Works with very small DNA quantities
- Fastest DNA Purification in just 5 minutes
- High DNA Recovery and yield from even low feed quantities
- ◆ Highly concentrated DNA in very low elution volume
- Easy purification of large sized fragments without shearing

Downstream Applications

- ◆ Transfection
- ◆ In-VitroTranscription
- ◆ In-Vitro Translation
- ◆ High quality sequencing
- ♦ Microarray Analysis
- Cloning
- ◆ PCR
- Gene Silencing
- Probe Generation
- ◆ Microinjection
- Restriction Digestion
- Demanding enzymatic modifications
- ◆ Library Construction
- Bacterial Transformation
- ◆ Ligation

Specifications

Capacity of column reservoir: 800µl

Binding capacity of membrane (ds DNA): 5 µg

Recovery: 80-85%

Recovered DNA fragment: (70 bp-4 kb)

Minimum elution volume : 5µl Total eluate volume : 4µl

Purity

Ultrapure Plasmid DNA: $A_{260}/A_{280}=1.8-2.0$

ORDERING INFORMATION

Туре				
Type	Code			
Nano PCR Purification Kit	NPCK			

XX

XX

XX

Χ

Pack Size			
Pack Size	Code		
50	0050		
250	0250		

NPCK	XX	XX	XX	Х	0250

Express 96 PCR Purification Kit

Unique Performance Advantages

- ♦ High DNA Recovery and yields
- ♦ High well to well consistency
- Easy purification of large sized fragments without shearing

Downstream Applications

- ◆ Transfection
- ◆ Transformation
- Transduction
- ◆ Automated Fluorescent sequencing
- Radioactive sequencing
- Cloning
- Restriction Digestion
- ◆ Ligation

Specifications

Capacity of column reservoir: 800µl

Binding capacity of membrane (ds DNA): 10µg/well

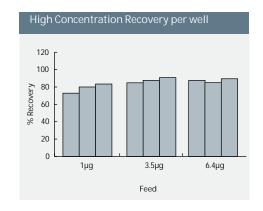
Recovery:80-95%

Recovered DNA fragment: (100 bp-10 kb)

Minimum elution volume: 100µl

Purity

Ultrapure DNA: $A_{260}/A_{280}=1.8-2.0$



	Pack Siz	ze
Pac	k Size	Code
	4	0004
0004		

Gel Extraction Kit

(5-10µg)

Unique Performance Advantages

- Easy purification of large sized fragments without shearing
- No precipitation step for high purity DNA
- Highly concentrated DNA yields in low elution volume

Downstream Applications

- ◆ Transfection
- ◆ In-Vitro Transcription
- ◆ In-Vitro Translation
- ◆ High quality sequencing
- Microarray Analysis
- ◆ Cloning
- ◆ PCR
- ◆ Gene Silencing
- Probe Generation
- Microinjection
- Restriction Digestion
- Demanding enzymatic modifications
- ◆ Library Construction
- ◆ Bacterial Transformation
- Ligation

Specifications

Capacity of column reservoir: 800µl Maximum weight of gel slice: 400mg

Binding capacity of membrane (ds DNA): 10 µg

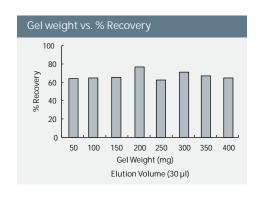
Recovery: 70-80%

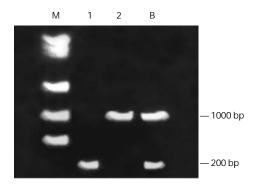
Recovered DNA fragment: (70 bp-10 kb)

Minimum elution volume: 30 µl

Purity

Ultrapure Plasmid DNA: $A_{260}/A_{280}=1.8-2.0$





High recovery using mdi Gel Extraction Kit B: Before extraction 1-2: After extraction M: Marker

ORDERIN JFORMAT

Ту	Туре			
Type	Code			
Gel Extraction Kit	SGEK			

XX XX

XX

Х

Pack Size				
Pack Size	Code			
50	0050			
250	0250			

SGEK	XX	XX	XX	Х	1000

Micro Gel Extraction Kit

$(1-2\mu g)$

Unique Performance Advantages

- Easy purification of large sized fragments without shearing
- No precipitation step for high purity DNA
- Highly concentrated DNA yields in very low elution volume

Downstream Applications

- ◆ Transfection
- ◆ In-VitroTranscription
- ◆ In-Vitro Translation
- High quality sequencing
- Microarray Analysis
- Cloning
- ◆ PCR
- ◆ Gene Silencing
- Probe Generation
- Microinjection
- ◆ Restriction Digestion
- Demanding enzymatic modifications
- ◆ Library Construction
- Bacterial Transformation
- ◆ Ligation

Specifications

Capacity of column reservoir: 800µl Maximum weight of gel slice: 400mg

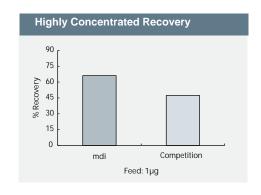
Binding capacity of membrane (ds DNA): $5\,\mu g$

Recovery: 80%

Recovered DNA fragment : (70bp-4kb) Minimum elution volume : 10 µl

Purity

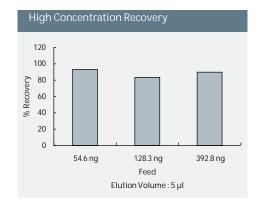
Ultrapure Plasmid DNA: $A_{260}/A_{280}=1.8-2.0$



Ту	pe	XX	XX	XX	Х			Pa
Туре	Code					_	Pack	Size
Micro gel Extraction kit	MGEK						50	0
							25	0
		1	1 104	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	,,			
Example:	MGEK	XX	XX	XX	X	0	250	

Pack Size

0050 0250



Nano Gel Extraction Kit

(upto 400ng)

Unique Performance Advantages

- ◆ Fastest DNA Purification
- Very high DNA binding capacity
- High DNA Recovery and yield from even low feed quantities
- Highly concentrated DNA; in very low elution volumes
- Easy purification of large sized fragments without shearing

Downstream Applications

- ◆ Transfection
- ◆ In-Vitro Transcription
- ◆ In-Vitro Translation
- High quality sequencing
- Microarray Analysis
- Cloning
- ◆ PCR
- Gene Silencing
- Probe Generation
- Microinjection
- ◆ Restriction Digestion
- Demanding enzymatic modifications
- Library Construction
- ◆ Bacterial Transformation
- Ligation

Specifications

Capacity of column reservoir: 800µl

Binding capacity of membrane (ds DNA): 5µg

Recovery:80-85%

Recovered DNA fragment: (70bp-4kb)

Minimum elution volume : 5µl Total eluate volume : 4µl

Purity

Ultrapure Plasmid DNA: $A_{260}/A_{280}=1.8-2.0$

ORDERING INFORMATION

Туре		
Туре	Code	
Nano Gel Extraction Kit	NGEK	







Pack Size				
Pack Size	Code			
50	0050			
250	0250			

NGEK	XX	XX	XX	Х	0250

Binding Membranes for Molecular Biology

mdi binding membranes are uniform, paper thin, white plastic supports, having specially designed porous structures and binding sites suitable for transfer and hybridization of biological molecules.

mdi offers a wide range of binding membranes viz. Nitrocellulose, Nylon-66, and PVDF, exhibiting a range of properties to suit various applications.

Special features

- High binding capacities for the transferred molecules
- Good wettabilty for Nitrocellulose and Nylon-66 membranes
- PVDF membranes are hydrophobic
- Ability to retain the molecules without affecting its biological activity
- · Chemical compatibility and mechanical durability
- Ability to be blocked by simple procedures
- ◆ High signal to noise ratio

For special applications, mdi offers internally supported binding membranes which exhibit very high mechanical strength.

Nitrocellulose Membrane Type - SCN and SCNJ

SCN

 $Pure \, nitrocellulose \, membrane \, produced \, specially \, for \, life \, sciences \, applications. \, and \, sciences \, applications \, described by the contraction of t$

SCN

 $Internally \, supported \, to \, offer \, superior \, handle ability. \,$

Characteristics

- High binding capacities for proteins and nucleic acid molecules
- Minimum background: High signal to noise ratio
- Uniform and easy wettability
- Can be blocked by normal blocking methods
- Does not bind common protein stains
- Compatible with colorimetric, radiolabelled, chemiluminescent, fluorescent, and staining detection methods

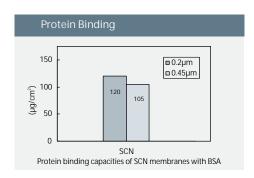
Applications

- Protein blotting
- Dot and slot blots
- ◆ Nucleic acid dot/slot blots
- ◆ Colony/plaque lifts
- ◆ Enzyme immunoassays

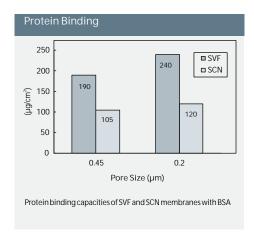
Packaging

Sealed in aluminum bags to maintain hydrophilicity and high protein binding on prolonged storage. The separators are of pure polyester film to avoid any contamination of the membrane from the separator.





PVDF Membrane-Type SVF



mdi Polyvinylidene fluoride (PVDF) membrane is a naturally hydrophobic support matrix which offers much higher protein binding capacities than that of Nitrocellulose membrane and also binds difficult to bind proteins such as glycoproteins.

Characteristics

- Very high binding capacities
- Minimal background: High signal to noise ratio
- · Remains flexible and non-brittle after processing
- Chemically resistant to harsh reagents making it a convenient matrix for protein sequencing
- Higher strength than pure nitrocellulose
- Compatible with all types of detection methods

Downstream Applications

- ◆ Ideal support matrix for protein sequencing
- For high performance, reproducible western blotting
- For protein staining, glycolipid detection and immunoblotting

Nylon-66 Membrane Type - SNNP and SNNPZ

SNNP: Internally supported Nylon-66 membranes

SNNPZ: Positively charged for enhanced binding of negatively charged molecules

Characteristics

- Very high binding capacities for nucleic acid molecules
- Easy wettabilty
- Ultraviolet cross linkable
- Chemically resistant; tolerant to alkali fixation

Applications

- Nucleic acid transfers
- Dot/slot blots
- Colony/plaque lifts
- Multiple reprobing

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Type		Size		
Type	Code	Dia	Code	
SCN	SCNX	82mm	13	
SCNJ	SCNJ	90mm	14	
SVF	SVFX	137mm	20	
SNNP	SNNP	142mm	16	
SNNPZ SNPZ		80mm x 100mm	88	
		150 x 150mm	87	
		200 x 200mm	86	
		300 x 300mm	85	
		3M X 300mm	84	
		3M x 240mm	83	
		3M x 100mm	81	
		3M x 150mm	95	

Pore	Size	XX XX		Sterile/ Non Sterile		Pack	Size
Pore Size	Code				Code	Pack Size	Code
0.2µm	01			Non Sterile	1	25	11
0.45µm	02					50	03
						Roll	01

- * SVF, SNNP and SNNPZ are available in a maximum width of 240 mm
- ** SCNJ is available in a maximum width of 150mm

SCNJ 13 02 XX XX 1 03

Selection Chart

This selection chart highlights the suitability of various mdi membranes for different applications based on their properties. $\frac{1}{2} \int_{-\infty}^{\infty} \frac{1}{2} \int_{-\infty}^{$

Membrane Type	SCN	SCNJ	SNNP	SNNPZ	SVF
Biomolecules					_
Nucleic Acids	R	R	HR	HR	NR
Proteins	HR	HR	R	R	R
Transfer Method					
Dot Blot	R	R	R	R	R
Colony or Plaque lift	HR	HR	R	R	NR
Electrotransfer	R*	R*	HR	HR	HR
Capillary Blot	R	R	R	R	R
Vacuum Blot	R	R	R	R	R
Alkaline Transfer	NR	NR	R	R	R
Molecule Fixation					
Baking	R	R	R	R	NR
Drying	R	R	R	R	R
UV Crosslinking	Р	Р	HR	HR	R
Alkali Fixation	NR	NR	R	R	R
Molecule Removal	NR	R	NR	NR	R
Detection Method					
Colorimetric	HR	HR	R	R	R
Radiolabelled	R	R	R	R	R
Luminesence	R	R	Р	Р	R
Fluorescence	R	R	Р	Р	R
Staining	R	R	Р	Р	R
Reprobing					
Once	NR	R	R	R	R

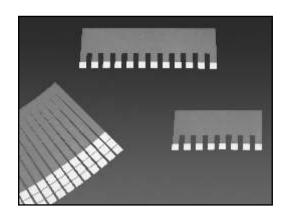
HR Highly Recommended

R = Recommended

R* = P = Recommended for Proteins only

Possible

NR Not Recommended



Dipsticks and Combs

Dipsticks for Immunodiffusion

mdi dipsticks for dot blot tests are convenient devices for conducting rapid enzyme immunoassays. These are particularly suited for semiquantitative analysis. These dipsticks have one or more membrane pads mounted on an inert plastic tab and are used for dot ELISA based on diffusion principle.

Types Available

Type DCN uses NC membrane and is most commonly used for protein spots. DCN can have one or more pads in the same dipstick.

Application

The dipsticks find application in analysis of multiple parameters in a given sample, to be analysed at the same time.

Sizes Available

Normally 6 mm x 75 mm dipsticks with 6 mm square membrane pads are used. However, other size can be produced as specified.

Combs for Immunodiffusion

Type CCN is a comb with 8 or 12 legs which fits into a normal ELISA plate. It allows 8 or 12 samples to be tested at the same time.

ORDERING NFORMATION

Type	Pad Size (mm)	Dipstick Length	No. of Pads
	4		
DCN-II	5	Normally 75 mm, Maximum 100 mm	Maximum20
	6		

Type	Pad Size	Comb Size	Leg Spacing	No. of Pads
CCN-12 12 Leg	5 mm	104 x 35 mm	3.7 mm	1
CCN-8 8 Leg	5 mm	69 x 35 mm	3.7 mm	1
CCN-II, 10 Leg	4 mm	95 x 82 mm	5 mm	Max. 8

To order specify the length, width, and number of membrane pads required in the dipsticks and/or combs.

Filters for Biological Applications

 $mdi\ Filters\ for\ Biologicals\ are\ specially\ designed\ filtration\ devices\ for\ filtration\ of\ culture\ media,\ culture\ soups,\ serum\ solutions,\ nutrients,\ growth\ regulators\ and\ other\ sensitive\ solutions\ in\ the\ laboratory.$

These filters are validated for absolute bacterial retention, hold-up volume, and protein recovery.

Filter Selection Chart

Product	Key Features	Туре	Dia/ Size	Applications	
Nylon Membrane Centrifugal Filters	Wide chemical compatibility	CFNN	7mm	Sterilization/clarification of very small volume, difficult to get samples	
Polyethersulfone Membrane Centrifugal Filter	Low protein binding and high throughputs	CFPL	7mm	(up to 500µl)	
PVDF Membrane 96 Well Filter Plates	Low protein binding	WPFX96VF	-	Processing of large number of small volum samples for sterilization, removal of cell	
PES Membrane 96 Well Filter Plates	Low protein binding and high throughputs	WPFX96PL	-	debris and particulate matter	
		SY4PL-S	4mm	Sterilization of high value additives such as growth hormones, vitamins, and antibiotics (<1ml)	
Polyethersulfone Membrane Syringe Filters	Low protein binding	SY13PL-S	13mm	Sterilization/clarification of protein solutions, culture media etc (<10ml)	
		SY25PL-S	25mm	Sterilization/clarification of protein solutions, Culture media etc (<20ml)	
Dolusthoroulfone		SY25KG-S	25mm	Sterilization/clarification of difficult to filter solutions up to 50ml	
Polyethersulfone Membrane Syringe Filters with pre-filter	Low protein binding and high throughputs	IKG-S	50mm	Sterilization/clarification of protein solutions, culture media, and serum (≤1 liter)	
		SY4VF-S	4mm	Sterilization of high value additives such as growth hormones, vitamins, and antibiotics (<1ml)	
PVDF Membrane Syringe Filters	Low protein binding	SY13VF-S	13mm	Sterilization/clarification of protein solutions, culture media etc (<10ml)	
		SY25VF-S	25mm	Sterilization/clarification of protein solutions, Culture media etc (<20ml)	
		SY4NN-S	4mm		
Nylon Membrane syringe Filter	Low protein binding	SY13NN-S	13mm	Sterilization of Chemicals such as DMSO	
		SY25NN-S	25mm		
Polyethersulfone Membrane Bottle Top Vacuum Filter	Low protein binding and high throughputs	Vacufil-S	75mm	Sterilization/clarification of protein solutions, culture media, and serum (<1 liter)	
Polyethersulfone Membrane Capsule Filters	Low protein binding and high throughputs	AseptiCap KL/KS	1"	Sterilization/clarification of protein solutions, culture media, and serum (<5 liters)	





Membrane Centrifugal Filters

mdi Centrifugal Filters are meant for high value laboratory applications like sterilization, puri fication, particulate removal and clarification of upto 500µl of high value difficult to get biological/chemical samples.

These are small sized filtration devices made of pigment-free polypropylene outer tube with snap-fit top cap. A smaller pigmentfree polypropylene tube with thermally sealed membrane filters is placed inside the outer tube. The fluid to be filtered is put inside the smaller tube.

The filter is designed for use with centrifuge machine where centrifugal force applied by the machine effects filtration.

Type Availables

- Nylon Membrane Disposable Centrifugal Filter (CFNN)
- Polyethersulphone Membrane Disposable Centrifugal Filters (CFPL)

Special Features

- ◆ Absolute retention
- Ready to use: Very low hold up volume
- Fast sample prepration
- Maximum sample recovery
- Biologically inert material of construction
- Ease of handling
- Parallel filtration of multiple samples

Specifications

Membrane: Polyethersulfone, Nylon

Pore Size: 0.2µm, 0.45µm

Effective Filtration Area: 0.28 cm² Outer Tube Lenth: 42.8mm Inner Tube Lenth: 21.5mm Maximum sample volume: 750µl

Hold-up Volume: <5µl

Operating Temperature Range: 80°C

Maximum Centrifugal Force at 10,000rpm: 5600 x g Retention Efficiency: 0.2µm: LRV>7 for *B. diminuta* : 0.45µm: LRV> 7 for *S.marcescens*

Туре				
Type	Code			
PES Membrane	CFPL			
NylonMembrane	CFNN			

Size	
Size	Code
7mm	21
-	

Pore Si	ze
Pore Size	Code
0.2µm	01
0.45µm	02

XX	XX

Sterile/								
Non Sterile								
	Code							
Non Sterile	1							
EO Sterile	2							

Pack S	Size
Pack Size	Code
100	04

	CFPL	21	01	XX	XX	2	04
- 1							

96 Well Membrane Filter Plates

mdi 96 Well Filter Plates are constructed of chemically resistant, biologically-inert polypropylene

These have a robotic compatible design with single piece construction, in accordance with the ANSI/SBS X-2004 standards.

mdi Filter Plates are designed to provide individual filters sealed in each well to eliminate crosstalk between the wells.

Filters Available

- Polyethersulfone (PES) Membrane
- ◆ Hydrophilic PVDF Membrane

Application

◆ Processing of large number of small volume samples for: sterilization, removal of cell debris and particulate matter

Specifications

Pore Size: 0.2µm, 0.45µm

Dimensions: height: 1.4cm(0.6in.)

Length: 12.8cm(5.0in.) Width: 8.6cm(3.4in.)

Well Bottom Area: 0.25cm² Well Capacity: 350µl

Recommended Maximum Working Volume: 300µl

Recommended Operating Vacuum: 25.4 cm Hg(10 in. Hg) or greater

Filtration by Centrifugation: 500-3000 x g

Typical Sample Hold-Up Volume: <14µl per well

Retention Efficiency: 0.2µm: LRV>7 for *B. diminuta*: 0.45µm: LRV>7 for *S.marcescens*



Type Code Code Code Code Code Code Code	1 [
Jacob Code Code	Code		Code
WPFX WPFX 96 96 PES PL 0.2μm 01 Single 1 Non-Sterile 1 350μl	S	12	08
PVDF VF 0.45μm 02 Sterile 2		24	12

Example:	WPFX	96	PL	01	1	1	S	12
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RDERING ORMATION

Pre-Sterilized Membrane Syringe Filters



Pre-sterilized membrane syringe filters and Inline filters for protein solutions biological fluids like serums, serums solutions, cell cultures supplements and laboratory chemicals.



Type Available	es
SYPL-S	Single layered PES membrane syringe filters for easy to filter solutions such as media, buffers and growth regulators
SY25KG-S	Special PES membrane syringe filters and Inline filters with Microglassfiber pre-filter layer for difficult to filter
IKG-S	biological fluids such as pure sera or serum solutions etc.
SYVF-S	Hydrophilic PVDF, low protein binding filters for filtering protein solutions, buffers etc.
SYNN-S	Pre-sterilized Nylon membrane syringe filters offer wide chemical compatibility, and are used for sterile filtration of DMSO in stem cell storage facilities.

Specifications

Pore Size	0.2	2μm, 0.45	μm	
Diameter	4mm	13mm	25mm	50mm
EFA*	0.07cm ²	² 0.8cm ²	4.15cm ²	20cm ²
Hold-Up Volume	<5µI	<20µl	<50µl	<300µl
Retention Efficiency	•		for <i>B. dimir</i> 7 for <i>S. mar</i>	

Ту	Туре		ze	Pore Size		Inlet/Outlet		Inlet/Outlet		X	X	Steriliza	tion	Pack S	ize
Type	Code	Dia	Code	Pore Size	Code		Code				Code	Pack Size	Code		
SYPL	SYPL	4mm	01	0.2µm	01	Female	М			EO Sterile	2	100	04		
SYKG*	SYKG	13mm	03	0.45µm	02	Luer Lock									
SYNN	SYNN	25mm	06		•	Male Luer Slip	N			*CVVC :	اطمائمي	a in OFman			
SYVF	SYVF					Luci Siip				STAG IS a	vanabi	e in 25mm	only		

Example: SYKG 06 01 MN X X 2 04

For 50mm Filters

Ту	pe	Si	ze	Pore S	ize	Inlet/Out	let	X	Bell		Steriliza	tion	Pack S	ize
Type	Code	Dia	Code	Pore Size	Code		Code			Code		Code	Pack Size	Code
IKG	IKGX	50mm	10	0.2µm	01	1/4" Stepped	В		with Bell	В	EO Sterile	2	10*	02
				0.45µm	02	Hose Barb			without	X			12	08
	Bell A										*With	Bell		

Example: IKGX 10 01 BB X X 2 08

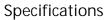
Vacufil-S: Pre-Sterilized Bottle Top Vacuum Filters

mdi Pre-Sterilized Bottle Top Vacuum Filtration units with an extra large 75mm diameter, low protein binding Polyethersulfone membrane are the best option for filtration of biologicals like sera and culture media, and other proteinaceous solutions.

Vacufil filters have a hydrophobic filter in the vacuum arm to prevent passage of filtrate to the pump. These filters screw perfectly on to vacuum safe bottles with 45mm neck size.

Features

- ◆ Low protein binding
- ◆ Extra large filter area
- ♦ High flow rates
- ◆ 100% Integrity tested
- No elastomers or adhesive used in sealing
- ◆ Non-toxic materials of construction



Pore Size: 0.2µm, 0.45µm

Diameter:75mm

Connection: 45mm (Screw cap neck)

Hold-Up Volume: <3ml

Retention Efficiency: 0.2 µm: LRV>7 for B. diminuta

: 0.45µm: LRV> 7 for *S.marcescens*



Тур	ре
Туре	Code
Vacufil	VFPX

Siz	е
Dia	Code
75mm	11

Pore Size		
Pore Size	Code	
0.2µm	01	
0.45µm	02	

XX	XX

Sterile/ Non Sterile					
	Code				
Sterile	2				

Pack Size			
Pack Size	Code		
12	08		
24	12		

Exam	nla	٠.
Lxaiii	DIE	۶.

VFPX	11	01	XX	XX	2	12

AseptiCap KL/KS- Polyethersulfone Membrane Capsule Filters

Polyethersulfone membrane capsule filters are self contained, ready to use, disposable filtration devices that contain a mini cartridge filter element sealed inside a polypropylene housing. These offer highest packing density of the membrane resulting in a very compact capsule offering long service life.

Radiation Sterilizable: AseptiCap KL/KS-g

Autoclavable: AseptiCapKL/KS

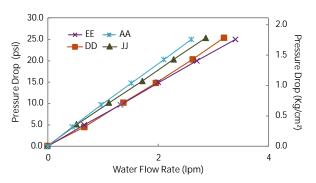


Specifications

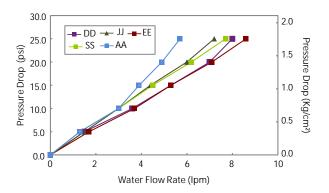
		Const	ruction			
Final Filter Pore Size		0.1 μm	0.2 μm	0.45 µm		
Prefilter Pore Size (in case of <i>AseptiCap KS</i>)		0.45 µm	0.8 μm, 0.65 μm, 0.45 μm	0.8 μm, 0.65 μm		
Membrane		Hydrophilic PES				
Support Layers			Polyester			
Body and Core			Polypropylene			
		Integrity Test	ing/Retention			
Bubble Point		\geq 31 psi (2.18 Kg/cm ²) with 50% IPA/Water Solution	≥ 50 psi (3.51 Kg/cm²) with Water	≥ 30 psi (2.11 Kg/cm²) with Water		
Microbial Retention		LRV >7 for Acholeplasma laidlawii (ATCC 23206) per cm²	LRV >7 for Brevundimonas diminuta (ATCC 19146) per cm²	LRV >7 for Serratia marcescens (ATCC 14756) per cm²		
		S	ize			
Size		1"	2" 5"	8"		
Effective Filtration	n Area (Nominal)	250 cm ²	500 cm ² 1000 cm ²	2000 cm ²		
Vent and Drain		1/4" Hose Barb with double platinum cured Silicone 'O' rings for 2", 5" and 8"				
		Opera	ational			
Max. Operating Temperature	0.1 µm	80 °C @ ≤ 15 psi (1.0 Kg/cm²)				
Temperature	0.2 μm	80 °C @ ≤ 30 psi (2 Kg/cm²)				
Max. Differential F	Pressure	60 psi (4 Kg/cm²) @ 30 °C				
	By Irradiation	AseptiCap KL/KS -g Gamma Irradiatiable up to 50 kGy				
Sterilization	By Gas		Sterilizable by Ethylene Oxide			
	By Autoclave	Autoclavable at 121 °C for 30minutes, 1 cycle after gamma irradiation. Can not be in-line steam sterilized				
Shelf Life		2 years after gamma sterilization 3 years after Ethylene Oxide sterilization				
pH Compatibility			Compatible with pH range of 1-10			

Water Flow Rates

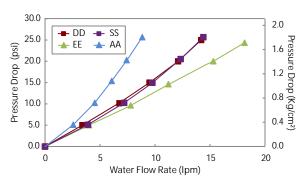
0.2 µm AseptiCap KS 1" Capsule Filters



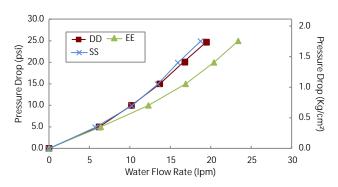
0.2 µm AseptiCapKS 2" Capsule Filters



$0.2\,\mu m\,\textit{AseptiCapKS}\ 5"\text{Capsule Filters}$



0.2 µm *AseptiCap KS* 8" Capsule Filters

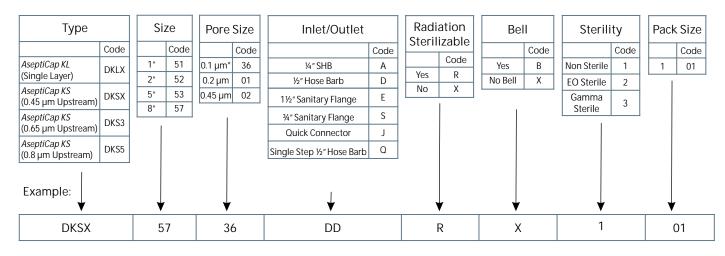


End Connection Type:

A: ¼" Stepped Hose Barb D: ½"Hose Barb E: 1½" Sanitary Flange J: Quick Connector S: ¾" Sanitary Flange

Ordering Information

AseptiCap KL/KS and AseptiCap KL/KS -g



^{*} Note: 0.1 µm is available in AseptiCap KS and AseptiCap KS -conly with 0.45 µm upstream

Filters for Air / Gases



mdi offers a range of air filtration devices incorporating hydrophobic PTFE membrane. These filters are validated for absolute bacterial retention and heat stability and are ideal for sterile filtration and venting of air/gases.

The hydrophobic nature of PTFE membrane allows efficient flow of air/gases even under conditions of entrained moisture which would otherwise tend to wet the filter element and restrict the airflow.

mdi air filters are designed for long service life and are suitable for a variety of applications such as sterile venting of culture vessels, bioreactors, incubators and autoclaves, and sterilization of air/gases for fermentors and bioreactors. The table below highlights some of the applications and suitable products.

Filter Selection

Product	Key Features	Туре	Dia / Size	Applications
PTFE Membrane Inline Vent Filters	Hydrophobic	AseptiVent TF	25mm, 37mm, 50mm	Air venting as well as sterile air filtration for small bioreactors and fermentors
PTFE Membrane Capsule Filters	Hydrophobic	AseptiVent TF	1"	Air venting for autoclaves and sterile air filtration for bioreactors and fermentors

AseptiVent TF- 25 mm, 37 mm, 50 mm

AseptiVent TF Disposable inline PTFE gas filters are convenient pre-fabricated devices used for sterilization of gases and as a bacterial air vent in various pharmaceutical and biopharmaceutical processes.

Microbially Validated as per ASTM F 838-05 Complies with USFDA 21 CFR 211.72 Meets and Exceeds USFDA 21 CFR 177.1520

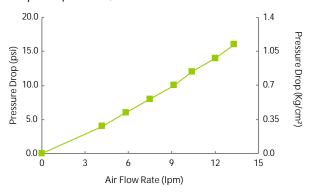


Specifications

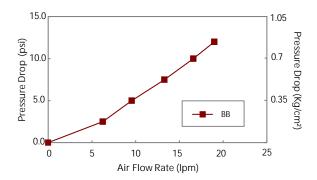
Construction					
Final Filter Pore S	iize	0.2 µm		0.45 µm	
Membrane		Hydrop	hobic PTFE		
Support Layers		Polyp	ropylene		
Body and Core		Polypropylene			
		Integrity Testing/Retention			
Bubble Point		\geq 22 psi (1.54 Kg/cm²) with 70% IPA/Water Solution	<u>></u> 10 psi (0.7 Kg/d	cm²) with 70% IPA/Water Solution	
Microbial Bacteri	al Retention			-7 for Serratia marcescens ATCC 14756) per cm²	
		Size			
Size		25 mm 33	mm m	50 mm	
Effective Filtratio	n Area (Nominal)	5 cm ² 10) cm ²	20 cm²	
		Operational			
Max. Operating 1	emperature	6	0 °C		
Max. Differential	Pressure	42 psi (3 K <u>ç</u>	g/cm²) @ 30 °C		
Burst Pressure		> 14 Kg/cm ² > 8	> 14 Kg/cm ² > 8 Kg/cm ²		
Charillantian	By Gas	Sterilizable by Ethylene Oxide			
Sterilization	By Autoclave	Autoclavable at 121 °C for 30 minutes, 30 cycles. Can not be in-line steam sterilized			
Shelf Life		3 years after Ethyle	ene Oxide sterilization		

Air Flow Rates

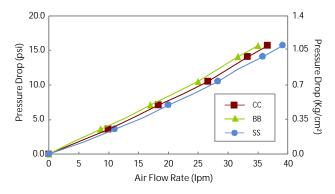
0.2 µm AseptiVent TF, 25 mm Filters



0.2 µm AseptiVent TF, 37 mm Filters



0.2 µm AseptiVent TF, 50 mm Filters

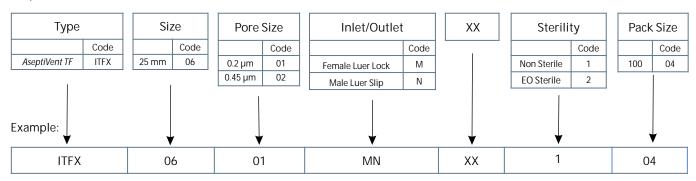


End Connection Type:

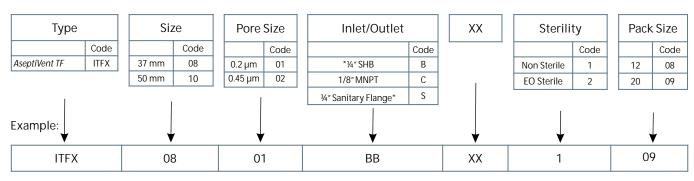
B: ¼" Stepped Hose Barb C: 1/8" MNPT S: ¾" Sanitary Flange

Ordering Information

AseptiVent TF- 25 mm



AseptiVent TF- 37 mm, 50 mm



^{*} Note: AseptiVent TF-37 mm is available with BB connection only



AseptiVent TF capsule filters employ hydrophobic PTFE membrane offering absolute retention and very wide chemical compatibility making these useful for sterile filtration of air/gases as well as aggressive solvents.

Special Features

- Hydrophobic
- Absolute retention
- Wide chemical compatibility
- 100% Integrity tested
- Total traceability: Unique marking on each filter

Applications

- Fermentor exhaust
- Venting of sterile collection vessels
- Cleaning sterile surfaces

Specifications

Sterilization: 30 autoclave cycles of 30 minutes at 121 °C Maximum Differential Pressure: 4Kg/cm² (60psi) @ 30°C Maximum Operating Temperature: 80°C@≤2Kg/cm² (30psi)

Biosafety: Passes the Biological tests for Class VI plastics as described in USP

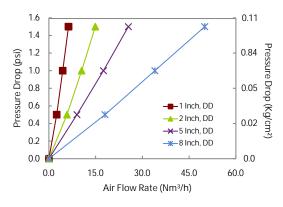
Oxidizable Matter: Passes test as per USP



Microbially Validated as per ASTM F 838-05 Complies with **USFDA 21 CFR 211.72 Meets and Exceeds USFDA 21 CFR 177.1520**

Air Flow Rates

0.2 µm AseptiVent TF Capsule Filters



Integrity Testing

Pore Size	Bubble Point (70% IPA)
0.2µm	≥ 22 psi (1.55kg/cm²)
0.45µm	≥ 10 psi (0.7kg/cm²)

End Connection Type D: 1/2" Hose Barb

Туре		Size		Pore Size	
Туре	Code	Size	Code	Pore Size	Code
AseptiVent TF	DTLX	1"	51	0.2µm	01
		2"	52	0.45µm	02
		5"	53		
	8"	57			

	I/O Connection				
į	Connection	Code			
	1/4" SHB	Α			
	½"Hose Barb	D			
	1½" Sanitary Flange	Е			
	3/4" Sanitary Flange	S			
	Quick Connecter	J			
	Single step ½"Hose Barb	Q			

Х	Х	Sterile/ Non Sterile		Pack Size	
			Code	Pack Size	Code
		Non Sterile	1	1	01
		EO Sterile	2		

Example:

DTLX	51	01	AA	Х	Х	1	01

Ordering Information

Shipment details for customers outside India

Through Federal Express, UPS, or DHL courier (specify complete street address). By air freight for large quantities (specify airport of discharge). Goods usually reach destination within 5-10 days from date of shipment. Membrane products are light weight and air freight charges usually vary between 3% to 10% of the value.

Any duties/taxes in the country of destination are the responsibility of the consignee.

Shipment details for customers inside India

The consignments can be sent through courier. Courier charges will be borne by the customer. Please specify the preferred courier and provide any form and instructions for octrol etc. that may be required for shipment.

How to order

Orders may be placed by email/phone/Fax/mail directly to Sales.

Advanced Microdevices Pvt. Ltd.

20-21, Industrial Area, Ambala Cantt - 133 006, INDIA

Tel: +91-171-2699290, 2699471 Fax: +91-171-2699221, 2699008 Email: support@mdimembrane.com

mdi Quality

Quality Policy

Quality is built into mdi products and services by not only adhering to well designed quality systems to consistently produce high quality, internationally acceptable products but also by striving to incorporate superior performance parameters into all our products and services and provide our customers with a unique performance advantage in their application. Our quality policy provides a glimpse of our commitment:

"mdi strives to provide to its customers products and services of highest standards possible, consistently superior, and more satisfying than competing products and complying with quality management systems."

Stride Towards Excellence

At mdi, our mission is to constantly strive to achieve excellence in all our endeavors by establishing systems to create excellent products and services to fulfil the needs of our customers. To achieve this we

- Frequently compare our products with competing brands
- Simulate tests for functional use
- Develop easy-to-use innovative products

We are constantly working on improvements and welcome suggestions from our customers.

Guarantee

All mdi products are guaranteed and are backed by our

- Technical expertise and experience of over 30 years
- 'Special mdi process' for consistency and repeatability
- Strict quality control and quality assurance regimen
- Certificate of Analysis accompanying all shipments

We have an unconditional replacement policy in case of any defects.











MUMBAI

Tel : 022-40214436

Fax : 022-40214435

Mobile : 09323801794

AHMEDABAD

Mobile : 09328257987

BANGALORE

Mobile : 09972587761

CHENNAI

Mobile : 09972587761

DELHI

Mobile : 08295618833

HYDERABAD

Mobile : 09391935423

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