

ELECTROPHORESIS ACCESSORIES

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Power Supplies

PEQLAB offers a comprehensive range of power supplies designed to match the requirements of a wide range of electrophoresis and transfer techniques.



PEQLAB power supplies systems including the peqPOWER design (left) and EV200 (right)

PEQLAB POWER SUPPLIES

With its versatility, high reliability and keen pricing, PEQLAB's range of power supplies is the perfect accompaniment to a PerfectBlue™ or any electrophoresis system.

With two different designs and a wide range of output options, there is a PEQLAB power supply ideally suited to your application. All power supplies are designed to be as practical to us in the lab as they are robust in their supply of electricity.

Three year warranty

PEQPOWER SYSTEMS

peqPOWER power supplies are designed to be as practical to use in the lab as they are robust in their supply of electricity.

- 2 models with 4 outputs for different applications
- Big LCD display and folding legs for convenient viewing of parameters
- Lightweight, compact and also stackable, they give you back more of your benchspace
- Manual programming option with the last parameters automatically stored.
- Easy programming of up to 10 programs (E250 system).
- Constant voltage, constant current and for E250, constant power control

EV200 SYSTEMS

- 10 different models to match your needs - 8 models with 4 outputs and 2 models with 3 outputs.
- 'Soft Touch' press button operation and large, easy to read LED display
- Manual programming option with the last parameters automatically stored
- Method programming, with 9 programs of 9 steps (excluding EV-222 model)
- Constant voltage, constant current and constant power control
- Voltage range from 200 to 6000 V to cover the widest range of electrophoresis and transfer techniques

MANUAL PROGRAMMING

Straightforward push-button manual control, unlimited by time.

Parameters can be changed during a run without the program being interrupted.

METHOD PROGRAMMING

With their own internal memory, up to 10 programs with up to 10 different sets of parameters can be programmed, simply called up by its own program number depending on system type.

POTENTIAL GRADIENT

Available on the EV200 series, advanced programming to include a linear voltage rise defined by starting and finishing voltage and time.

AUTOMATIC TIME CONTROL

Need a run stopped after 40 minutes? All models offer internal timers to switch off runs plus in the event of power failures, runs will restart automatically.

AUTOMATIC CROSS-OVER

The ability to manage a constant voltage, constant current or constant power capabilities with automatic parameter cross-over showing which parameter is kept constant.

INDUSTRIAL AND PERSONAL SAFETY

Each model is fully protected against any overload condition including accidental short circuit.

Users are further protected as voltages always increase smoothly, avoiding any sudden voltage peaks. An automatic system check is done on each restart.

ACCESSORIES

Adaptors and cables are available (4 mm or 2 mm of plug/sockets) making PEQLAB power supplies suitable for many different makes of electrophoresis systems.

ALL PEQLAB POWER SUPPLIES COME WITH A FULL 3 YEAR WARRANTY

PRODUCT	VOLTAGE	CURRENT	POWER	OUTPUTS	CAT. NO.
Power Supply EV262	6000 V	150 mA	300 W	4	55-EV262
Power Supply EV233	3000 V	300 mA	300 W	4	55-EV233
Power Supply EV232	3000 V	150 mA	150 W	4	55-EV232
Power Supply EV215	1200 V	500 mA	300 W	4	55-EV215
Power Supply EV261	600 V	1000 mA	300 W	4	55-EV261
Power Supply EV265	600 V	500 mA	150 W	4	55-EV265
Power Supply EV243	400 V	300 mA	50 W	3	55-EV243
Power Supply EV202	300 V	2000 mA	300 W	4	55-EV202
Power Supply EV231	300 V	1000 mA	150 W	4	55-EV231
peqPOWER E300	300 V	500 mA	90 W	4	55-E300-230V
peqPOWER E250	250 V	3000 mA	300 W	4	55-E250-230V
Power Supply EV222	200 V	200 mA	20 W	3	55-EV222

APPLICATION	EV222	E300	EV243	EV231	EV265	E250	EV202	EV261	EV215	EV232	EV233	EV262
DNA Sequencing									x	x	x	x
Horizontal Electrophoresis	x	x	x	x	x	x	x	x	x	x	x	x
Vertical Electrophoresis	x	x	x	x	x	x	x	x	x	x	x	x
Isoelectric Focusing									x	x	x	x
Electro Elution		x	x	x	x	x	x	x	x	x	x	
'Western Blotting'				x		x	x	x				

Technical Data and Descriptions for Power Supplies

MODEL	VOLTAGE	CURRENT	POWER	MIN. RESISTANCE	PROGRAMS AND STEPS	SIZE L x D x H (cm)
6000 Volt						
EV262	60 – 6000 V	2 – 150 mA	3 – 300 W	1200 Ω	9 x 9	31 x 15 x 26
3000 Volt						
EV233	30 – 3000 V	3 – 300 mA	3 – 300 W	300 Ω	9 x 9	31 x 15 x 26
EV232	30 – 3000 V	2 – 150 mA	2 – 150 W	600 Ω	9 x 9	31 x 15 x 26
1200 Volt						
EV215	12 – 1200 V	5 – 500 mA	3 – 300 W	70 Ω	9 x 9	31 x 15 x 26
600 Volt						
EV261	6 – 600 V	10 – 1000 mA	3 – 300 W	15 Ω	9 x 9	31 x 15 x 26
EV265	6 – 600 V	5 – 500 mA	2 – 150 W	30 Ω	9 x 9	31 x 15 x 26
400 Volt						
EV243	4 – 400 V	3 – 300 mA	1 – 50 W	30 Ω	9 x 9	24 x 13 x 20
300 Volt						
EV202	3 – 300 V	20 – 2000 mA	3 – 300 W	5 Ω	9 x 9	31 x 15 x 26
EV231	3 – 300 V	10 – 1000 mA	2 – 150 W	10 Ω	9 x 9	31 x 15 x 26
E300	2 – 300 V	4 – 500 mA	max. 90 W	1 Ω	manual	20 x 8.5 x 30.5
250 Volt						
E250	5 – 250 V	10 – 3000 mA	3 – 300 W	1 Ω	10 x 10	20 x 8.5 x 30.5
200 Volt						
EV222	2 – 200 V	2 – 200 mA	1 – 20 W	15 Ω	manual	24 x 13 x 20



PRODUCT	DESCRIPTION	CAT. NO.
Adapter E200	2/4 mm Diameter, M/F, 2 Pieces	55-E200
Adapter E204	4/2 mm Diameter, M/F, 2 Pieces	55-E204
Power Cable E201	4+4 mm Diameter, M/F, 2 Pieces	55-E201
Power Cable E203	2+4 mm Diameter, M/F, 2 Pieces	55-E203

Spare cables for electrophoresis systems of PEQLAB

PRODUCT	DESCRIPTION	CAT. NO.
Power Cables (1 Pair)	Cable for PEQLAB electrophoresis systems	40-PSL-5

PerfectBlue™ Electroblotting Systems from PEQLAB

Electroblotting systems for fast and highly efficient transfers of molecules onto nitro-cellulose, nylon or PVDF membranes.



PEQLAB's time saving and highly effective PerfectBlue™ Electroblotting systems are the perfect accompaniment to vertical double gel electrophoresis systems. With a casing made of sturdy, no nonsense Plexiglass and combining high grade steel and platinum coated titanium plates, the Electroblotter range realises a stable and rapid transfer of molecules from gel to membrane.

Requiring just a small amount of buffer, easy to clean, robust safety covers and clearly colour coded power connections, PerfectBlue™ Electroblotters are a well established addition to any busy molecular biology lab.

The range includes Semi-Dry blotters which use pre-soaked filter papers and a highly conductive plate to facilitate transfer and Tank blotters which use a large surface area cooling system for optimal heat dissipation.

ALL PERFECTBLUE™ ELECTROBLOTTERS COME WITH A FULL 3 YEAR WARRANTY FROM THE DATE OF PURCHASE

ELECTRICAL INFORMATION AND DIMENSIONS FOR PEQLAB ELECTROBLOTTING SYSTEMS

MODEL	TRANSFER SIZE (cm)	BUFFER VOLUME (ml)	CURRENT RANGE (mA)	TRANSFER TIME (min)
PerfectBlue™ Electroblotting Systems				
Sedec™ S	10 x 10	50 ¹⁾	50 – 300	30 – 120
Sedec™ M	20 x 20	200 ¹⁾	200 – 1200	30 – 120
Web™ S	8.5 x 9.5	1300	200 – 500	120 – 360
Web™ M	18 x 20	3000	1000 – 1500	120 – 360

¹⁾ To wet the filter paper and membrane

PerfectBlue™ Semi-Dry Blotter Sedec™ S and M

PerfectBlue™ Semi-Dry Electroblotters are designed for clean, rapid and effective transfer of proteins and nucleic acids from polyacrylamide or agarose gels to membranes. Suitable for use with Western, Southern and Northern blotting the Semi-Dry blotters reduce many lengthy procedures down to around an hour.



PerfectBlue™ Sedec™ S

Transfer surface: 10 x 10 cm

Buffer volumes: approx. 50 ml

Size (L x H x D): 18.5 x 6 x 18.5 cm

PerfectBlue™ Sedec™ M

Transfer surface: 20 x 20 cm

Buffer volumes: approx. 200 ml

Size (L x H x D): 29.5 x 6 x 29.5 cm

Electrodes

- Solid electrode plates for an even transfer over the entire gel surface
- High-grade stainless steel cathode and platinum-coated titanium anode for maximum transfer efficiencies
- Sturdy cover for enhanced user safety
- Design of lid prevents accidental wrong orientation of electrical field

The PerfectBlue™ Semi Dry Blotters from PEQLAB enable the blotting of proteins and nucleic acids in under an hour!

SPECIAL FEATURES

Blotting chamber

- Highly durable Plexiglass construction
- Totally removable cover which attaches flat to reduce overall unit storage size
- Oversized, easy to handle screws for fumble free and safe cover adjustment
- High-quality gold plated plug contacts for optimal electrical contact

The Semi Dry Electroblotter series is a strong step forward from conventional blotter constructs for the busy laboratory, demonstrating effective transfers in a short time scale and with minimal buffer volumes. The assembly of the system and the gel sandwich is straightforward taking only a few minutes and made all the easier with oversized screws. The clever lid design prevents the system being assembled in the wrong orientation.

PRODUCT	DESCRIPTION	CAT. NO.
PerfectBlue™ Electroblotter Sedec™ S	For gels 10 x 10 cm	52-1010
PerfectBlue™ Electroblotter Sedec™ M	For gels 20 x 20 cm	52-2020

PerfectBlue™ Tank Electroblotter Web™ S and M

The Web™ S and M Tank Electroblotters are designed to rapidly transfer nucleic acid or protein fragments from up to four poly-acrylamide gels at one time to nitrocellulose, nylon or PVDF membranes. The colour coded cassettes allow for easy assembly of transfer sandwich and error free transfer. The large buffer capacity allows for high current output for the transfer of high molecular weight proteins while integral cooling permits high voltages and extended transfers.



PerfectBlue™ Web™ S

Transfer surface: 8.5 x 9.5 cm

Buffer volumes: approx. 1300 ml

Size (L x H x D): 18.5 x 15.5 x 14.5 cm

PerfectBlue™ Web™ M

Transfer surface: 18 x 20 cm

Buffer volumes: approx. 3000 ml

Size (L x H x D): 29 x 35 x 14 cm

SYSTEM COMPONENTS

- Buffer chamber with electrode plates
- Integrated water circulation cooling system
- Safety cover
- Four or two blotting cassettes with eight or four fibre mats (Web™ S or M)

SPECIAL FEATURES

Buffer tank

- Sturdy buffer chamber for up to four colour coded blotting cartridges

- Sufficient volume for magnetic stirrer to manage uniform temperature and pH conditions

Electrodes

- Highly durable high-grade steel and platinum-coated titanium electrodes
- Uniform electrical field over the entire transfer surface
- Gold-coated plugs and corrosion proof electrodes for long durability and best electrical contact

Cooling System

- Water circulation system for buffer cooling at the base of the tank
- Effective heat exchanger made of aluminium ceramic
- Increased exchange surface area to aid heat transfer

Safety Cover

- Cover includes securely attached cables to enhance user safety

With the ability to run up to four transfers simultaneously in a cooled, temperature and pH stable environment, the Web™ Electroblotter series is a highly efficient and effective piece of laboratory apparatus for laboratories involved in molecular blotting techniques.

PRODUCT	DESCRIPTION	CAT. NO.
PerfectBlue™ Electroblotter Web™ S	For gels up to 8.5 x 9.5 cm	52-WEB-10
PerfectBlue™ Electroblotter Web™ M	For gels up to 18 x 20 cm	52-WEB-20
Blotting Cassettes	For Web™ S, 1 cassette and 2 mats	52-WEB-SC
	For Web™ M, 1 cassette and 2 mats	52-WEB-MC
Fibre mats	For Web™ S, 2 mats 10 x 12.5 cm	52-WEB-SF
	For Web™ M, 2 mats 18 x 24.5 cm	52-WEB-MF

peqGOLD Agarose

PEQLAB supplies a high quality selection of agarose suitable for routine and high performance electrophoresis applications.

All agarose products are available in a range of sample sizes and provide excellent results and good value.



The ever popular Universal agarose is available both in powder and also in the convenient and easy to handle tablet form.

Universal Agarose

- A high quality standard agarose for routine analysis
- High gel strength suitable for blotting applications

Low Melt Agarose

- Specialised agarose with a low melting point ideal for nucleic acid recovery
- For in gel techniques

MoSieve™ Agarose MS-500

- Highly soluble agarose for use with the smallest of DNA fragments
- Sharp bands of very small samples with a resolution down to 2 bp

MoSieve™-Agarose MS-1000

- Specialised highly soluble agarose for high band sharpness
- Strong enough to handle but highly soluble

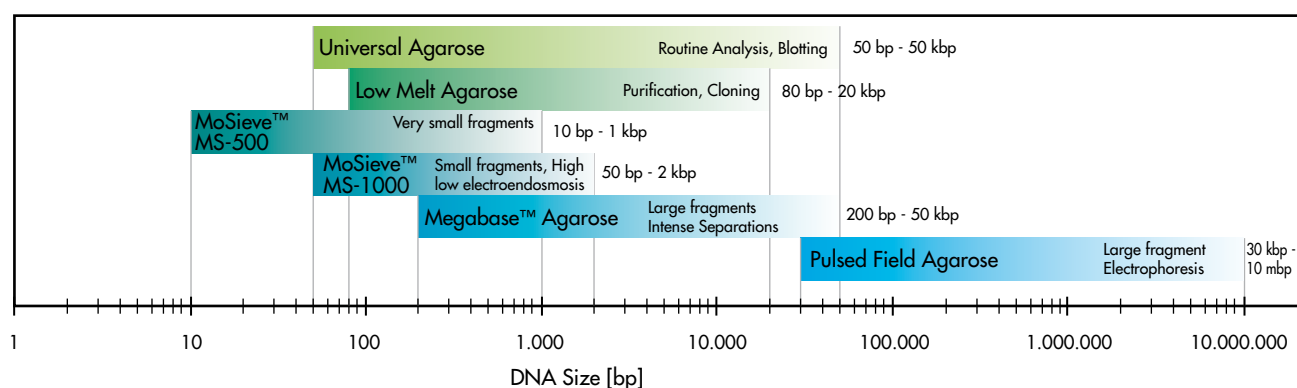
MegaBase™ Agarose

- For use in separation of large DNA fragments
- Suitable for high intensity electrophoresis

Pulsed Field-Agarose

- Designed for use in Pulsed Field gel electrophoresis (PFGE)
- Can also be used for conventional electrophoresis

SEPARATION RANGES USING peqGOLD AGAROSE



peqGOLD Universal Agarose

peqGOLD Universal Agarose is a dependable molecular biology grade agarose for use in analytical and preparative isolation of nucleic acid fragments between 50 bp and 50 kbp.

SEPARATION RANGE

- DNA: approx. 0.05 kbp – 50 kbp
- RNA: approx. 0.30 kb – 20 kb

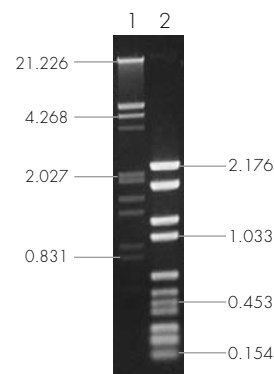
QUALITY

- Molecular Biology Grade
- Certified free of DNases and RNases
- No measurable DNA content
- High lot-to-lot consistency

CHARACTERISTICS

- High separation and band sharpness
- Easily soluble, free from foaming
- Very good optical transparency
- Gelling temperature: $\leq 37\text{ }^{\circ}\text{C}$
- Melting temperature: $\leq 90\text{ }^{\circ}\text{C}$
- Electroendosmosis: ≤ 0.140
- Gel strength (1.5 %): $\geq 2300\text{ g/cm}^2$
- Sulphate content: $\leq 0.10\text{ }%$
- Water content: $\leq 10.0\text{ }%$

DNA separation with peqGOLD Universal Agarose



1 % 1x TAE peqGOLD Universal Agarose gel showing separation of λ -DNA digested with *EcoR* I/*Hind* III (1) and a mixture from pBR328-DNA digested with *Bgl* I and *Hinf* I (2). Data in kbp.

PRODUCT	APPLICATION	SEPARATION RANGE	QUANTITY	CAT. NO.
Universal Agarose	Universal	0.05 kbp – 50 kbp	100 g	35-1010
			500 g	35-1020
			1000 g	35-1030

peqGOLD Low Melt Agarose

peqGOLD Low Melt Agarose is a specialist agarose for the isolation of nucleic acid fragments between 80 bp and 20 kbp. peqGOLD Low Melt Agarose, melts at lower temperatures forming very transparent gels and is suitable for all standard in gel techniques.

SEPARATION RANGE

- DNA: approx. 0.08 kbp – 20 kbp
- RNA: approx. 0.30 kb – 10 kb

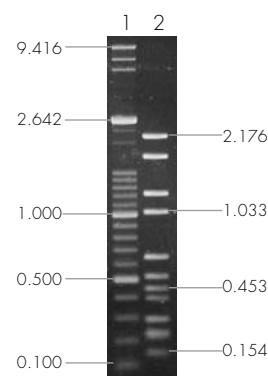
QUALITY

- Molecular Biology Grade
- Certified free of DNases and RNases
- No measurable DNA content
- High lot-to-lot consistency

CHARACTERISTICS

- High separation and band sharpness
- Easily soluble, free from foaming
- Very good optical transparency
- Gelling temperature: $\leq 31\text{ }^{\circ}\text{C}$
- Melting temperature: $\leq 66\text{ }^{\circ}\text{C}$
- Electroendosmosis: ≤ 0.140
- Gel strength (1.0 %): $\geq 200\text{ g/cm}^2$
- Sulphate content: $\leq 0.10\text{ }%$
- Water content: $\leq 10.0\text{ }%$

DNA separation with peqGOLD Low Melt Agarose



1 % 1x TAE peqGOLD Low Melt Agarose gel showing separation of a 100 bp Ladder (1) and a mixture from pBR328-DNA digested with *Bgl* I and *Hinf* I (2). Data in kbp.

PRODUCT	APPLICATION	SEPARATION RANGE	QUANTITY	CAT. NO.
Low Melt Agarose	In gel techniques	0.08 kbp – 20 kbp	25 g	35-2010
			100 g	35-2020
			250 g	35-2030

peqGOLD MoSieve™ Agarose MS-500

peqGOLD MoSieve™ is a specialist agarose for separating small nucleic acid fragments and can be used as a time saving alternative to polyacrylamide gels. With this agarose, resolutions down to 2 bp can be achieved.

SEPARATION RANGE

- DNA: approx. 0.01 kbp – 1.0 kbp
- RNA: approx. 0.05 kb – 2.0 kb

QUALITY

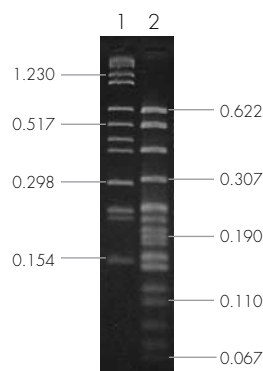
- Molecular Biology Grade
- Certified free of DNases and RNases
- No measurable DNA content
- High lot-to-lot consistency

CHARACTERISTICS

- High separation and band sharpness
- Easily soluble free from foaming

- Gelling temperature: $\leq 36\text{ }^{\circ}\text{C}$
- Melting temperature: $\leq 75\text{ }^{\circ}\text{C}$
- Electroendosmosis: ≤ 0.050
- Gel strength (3.0 %): $\geq 400\text{ g/cm}^2$
- Water content: $\leq 10.0\text{ %}$

DNA separation with peqGOLD MoSieve™ Agarose MS-500



3 % 1x TAE peqGOLD MoSieve™ Agarose MS-500 gel showing separation of a mixture from pBR328-DNA digested with *Bgl* I and *Hinf* I (1) and pBR322 DNA digested with *Msp* I. Data in kbp.

PRODUCT	APPLICATION	SEPARATION RANGE	QUANTITY	CAT. NO.
MoSieve™ Agarose	small DNA fragments	10 bp – 1000 bp	25 g	35-3010
MS-500			100 g	35-3020
			250 g	35-3030

peqGOLD MoSieve™ Agarose MS-1000

peqGOLD MoSieve™ Agarose MS-1000 is a specialist agarose suitable for separating fragments of nucleic acids between 50 bp and 2000 bp in size. Highly soluble and strong enough to easily handle, MS-1000 is a popular and very reliable agarose.

SEPARATION RANGE

- DNA: approx. 0.05 kbp – 2.0 kbp
- RNA: approx. 0.10 kb – 3.6 kb

QUALITY

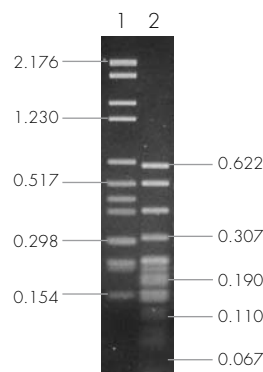
- Molecular Biology Grade
- Certified free of DNases and RNases
- No measurable DNA content
- High lot-to-lot consistency

CHARACTERISTICS

- High separation and band sharpness

- Gelling temperature: $\leq 39\text{ }^{\circ}\text{C}$
- Melting temperature: $\leq 92\text{ }^{\circ}\text{C}$
- Electroendosmosis: ≤ 0.140
- Gel strength (3.0 %): $\geq 1200\text{ g/cm}^2$
- Sulphate content: $\leq 0.15\text{ %}$
- Water content: $\leq 10.0\text{ %}$

DNA separation with peqGOLD MoSieve™ Agarose MS-500



2 % 1x TAE peqGOLD MoSieve™ Agarose MS-1000 gel showing separation of a mixture from pBR328-DNA digested with *Bgl* I and *Hinf* I (1) and pBR322 DNA digested with *Msp* I. Data in kbp.

PRODUCT	APPLICATION	SEPARATION RANGE	QUANTITY	CAT. NO.
MoSieve™ Agarose	small DNA fragments	50 bp – 2000 bp	25 g	35-4010
MS-1000			100 g	35-4020
			250 g	35-4030

peqGOLD MegaBase™ Agarose

As the name suggests, peqGOLD MegaBase™ is suitable for work with large DNA fragments, between 200 bp and 50 kbp in size. MegaBase™ possesses very high gel strengths making it suitable for intense, short running times and also for Pulsed Field gel electrophoresis (PFGE).

SEPARATION RANGE

- DNA: approx. 0.2 kbp – 50 kbp

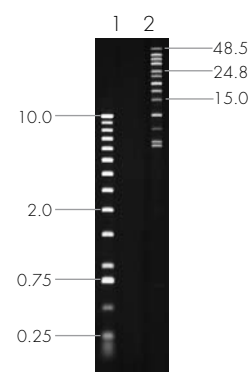
QUALITY

- Molecular Biology Grade
- Certified free of DNases and RNases
- No measurable DNA content
- High lot-to-lot consistency

CHARACTERISTICS

- High separation and band sharpness
- High optical transparency
- Optimal solubility through autoclaving
- Gelling temperature: $\leq 38\text{ }^{\circ}\text{C}$
- Melting temperature: $\leq 89\text{ }^{\circ}\text{C}$
- Electroendosmosis: ≤ 0.060
- Gel strength (1.0 %): $\geq 1700\text{ g/cm}^2$
- Sulphate content: $\leq 0.12\text{ }%$
- Water content: $\leq 10.0\text{ }%$

DNA separation with peqGOLD MegaBase™ Agarose



0.5 % 1x TBE peqGOLD MegaBase™ Agarose gel showing separation of a 1 kb Ladder (1) and a high molecular weight ladder (2). Data in kbp.

PRODUCT	APPLICATION	SEPARATION RANGE	QUANTITY	CAT. NO.
MegaBase™ Agarose	large DNA fragments	0.2 kbp – 50 kbp	25 g	35-5010
			100 g	35-5020
			250 g	35-5030

peqGOLD Pulsed Field Agarose

peqGOLD Pulsed Field Agarose is suitable for the separation of especially long DNA molecules and whole chromosomes by Pulsed Field Gel Electrophoresis (PFGE).

SEPARATION RANGE

- Pulsed Field: 50 kbp - 10 mbp
- Conventional: 30 kbp - 5 mbp

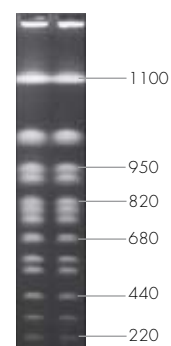
QUALITY

- Molecular Biology Grade
- Certified free of DNases and RNases
- No measurable DNA content
- High lot-to-lot consistency

CHARACTERISTICS

- High separation and band sharpness
- High optical transparency
- Optimal solubility through autoclaving
- Gelling temperature: $\leq 43\text{ }^{\circ}\text{C}$
- Melting temperature: $\leq 90\text{ }^{\circ}\text{C}$
- Electroendosmosis: ≤ 0.070
- Gel strength (1.5 %): $\geq 2200\text{ g/cm}^2$
- Sulphate content: $\leq 0.25\text{ }%$
- Water content: $\leq 10.0\text{ }%$

DNA separation with peqGOLD Pulsed Field Agarose



1.0 % 1x TBE peqGOLD Pulsed Field Agarose gel showing separation of chromosomes from *S. cerevisiae*. Data in kbp.

PRODUCT	APPLICATION	SEPARATION RANGE	QUANTITY	CAT. NO.
Pulsed Field Agarose	large DNA fragments	30 kbp - 10 mbp	25 g	35-6010
			100 g	35-6020
			250 g	35-6030

peqGOLD Universal Agarose Tablets

Universal agarose, for use in the routine qualitative and quantitative analysis of DNA, supplied in convenient and waste saving 0.5 g tablets.



Instead of going through the process of weighing out agarose, peqGOLD Universal Agarose tablets, supplied in a weight of 0.5 g per tablet, can simply be counted out depending on the desired volume and concentration, and prepared in buffer ready for use.

SPECIAL FEATURES

- Easy to handle, pre-weighed tablets
- Reduces waste and avoids weighing-out
- Dust free formulation
- Highly reproducible, just count the tablets

SEPARATION RANGE

- DNA: approx. 0.05 kbp – 50 kbp
- RNA: approx. 0.30 kb – 20 kb

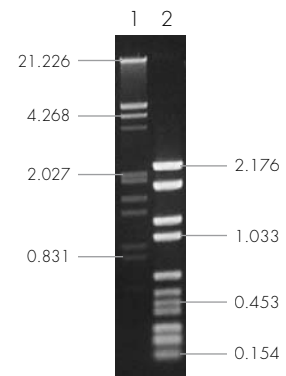
QUALITY

- Molecular Biology Grade
- Certified free of DNases and RNases
- No measurable DNA content
- High lot-to-lot consistency

CHARACTERISTICS

- High separation and band sharpness
- Easily soluble free from foaming
- Very good optical transparency
- Gelling temperature: $\leq 39\text{ }^{\circ}\text{C}$
- Melting temperature: $\leq 90\text{ }^{\circ}\text{C}$
- Electroendosmosis: ≤ 0.120
- Gel strength (1.5 %): $\geq 1200\text{ g/cm}^2$
- Sulphate content: $\leq 0.10\text{ }%$
- Water content: $\leq 10.0\text{ }%$

DNA separation with Universal Agarose



1 % 1x TAE peqGOLD Universal Agarose gel showing separation of λ -DNA digested with *EcoR* I/*Hind* III (1) and a mixture from pBR328-DNA digested with *Bgl* I and *Hinf* I (2). Data in kbp.

PRODUCT	APPLICATION	SEPARATION RANGE	QUANTITY	CAT. NO.
Universal Agarose	Universal	0.05 kbp – 50 kbp	50 g	35-7010
tablets			250 g	35-7020
			500 g	35-7030

peqGOLD Blotting Membranes

The transfer of nucleic acids and proteins from gels onto membranes (Blotting) is a fundamental technique to both molecular biology and biochemistry. Blotting procedures can be applied for applications involving RNA, DNA and proteins where the selection of the appropriate membrane material is an important consideration for success.



NITROCELLULOSE MEMBRANE

Blotting membranes made from pure cellulose nitrate are characterised by their ability to bind high concentrations of both nucleic acids and proteins. This membrane also shows an outstanding chemical stability as well as a rapid rate of moisture absorption and is reusable for repeated hybridising.

- High binding ability for proteins and nucleic acids
- Ideally suited for transfers of proteins >15 kDa and colony picking
- Nitrocellulose supplied without supporting layer
- Typical thickness: 142 µm
- Pore diameter: 0.20 µm

NYLON MEMBRANE

This positively charged membrane was developed specifically for the transfer of nucleic acids. In contrast to nitro-cellulose membranes, nylon exhibits higher material strength making it more suitable for repeated cycles of hybridising and stripping. Nylon membranes are inherently hydrophilic and therefore do not require repeated soaking.

- High binding capacity for nucleic acids
- Stable against common solvents
- Supplied on stable supporting layer
- Typical thickness: 152 µm
- Pore diameter: 0.45 µm

PVDF MEMBRANE

The polyvinylidene fluoride (PVDF) membrane is particularly suitable for the transfer of proteins, possessing a very uniform chemical structure and high binding capacity. With its hydrophobic properties, the membrane must be wetted with ethanol and equilibrated with buffer prior to use. For the transfer of proteins <15kDa, PVDF with a pore size of 0.20 µm is recommended.

- High binding capacity for proteins and amino acids
- Stable against common solvents
- Typical thickness: 147/127 µm
- Pore diameter: 0.45 or 0.20 µm

PRODUCT	APPLICATION	SEPARATION RANGE	QUANTITY	CAT. NO.
Blotting membrane	Nitrocellulose	0.20 µm	0.30 x 3.0 m Roll	39-1010
	Nylon	0.45 µm	0.30 x 3.0 m Roll	39-2010
	PVDF	0.45 µm	0.30 x 3.0 m Roll	39-3010
	PVDF	0.20 µm	0.25 x 3.0 m Roll	39-4010