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TECHNOLOGY GROUP

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so your equipment works exactly as you specify.

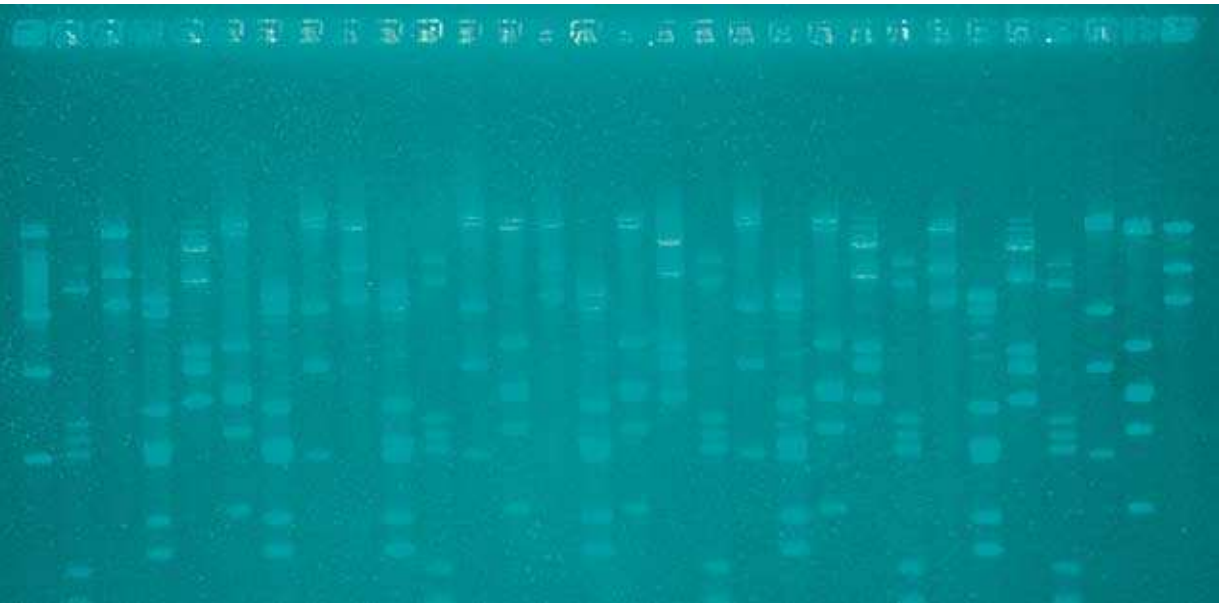
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- ITAR-certified secure asset solutions

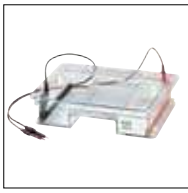
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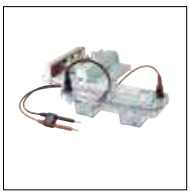
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Find the *Bio-Rad Wide Mini* at our website: *Click HERE*

Submerged Horizontal Electrophoresis







Sub-Cell® Systems

Handcast or Precast
Bio-Rad's Sub-Cell Family Gives You More Options

BIO-RAD

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A Sub-Cell for Every Application

The Sub-Cell family of submerged horizontal electrophoresis systems from Bio-Rad is designed with you, the molecular biologist, in mind. To fulfill your needs, we've created electrophoresis cells that are remarkably advanced, versatile, and user-friendly.

Sub-Cell GT Systems Mean Flexibility

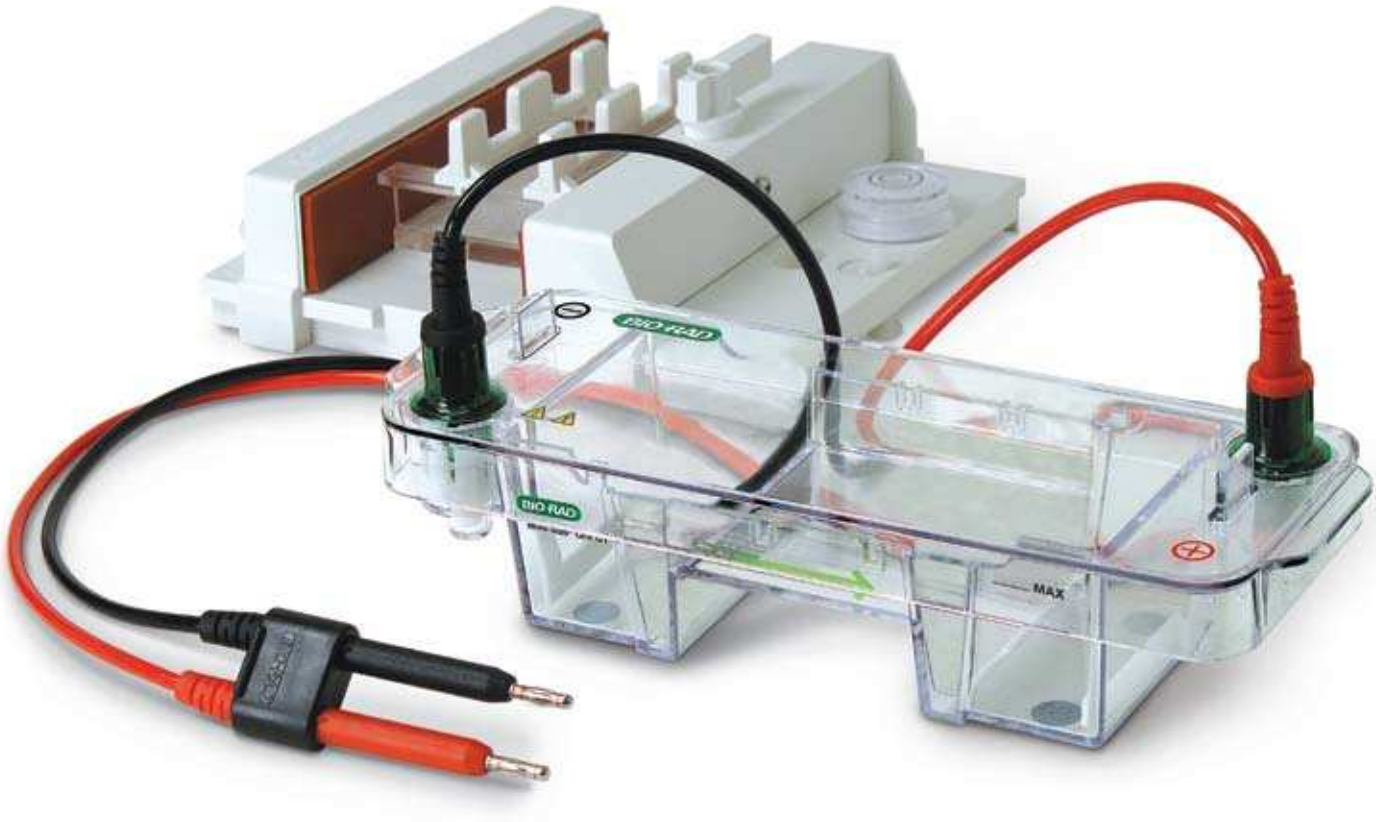
The compact Sub-Cell GT systems provide the utmost in versatility. Whether you need to separate just a few samples or up to 120, there's a Sub-Cell GT system just right for your application. Casting of agarose gels is quick and hassle free. But if you'd rather not cast your own gels, Bio-Rad's line of easy-to-use ReadyAgarose™ precast gels fits Mini-Sub® cell, wide Mini-Sub cell, mini ReadySub-Cell™, and wide mini ReadySub-Cell systems.

ReadySub-Cell GT Systems Jump-Start Separations

For the ultimate in streamlined operation and convenience, Bio-Rad offers the economical ReadySub-Cell GT systems in mini and wide mini formats. Ideal for simplified "run and reload" electrophoresis, ReadySub-Cell GT systems are dedicated to running ReadyAgarose precast gels.

Sub-Cell Models 96 and 192 Handle the Big Loads

Designed to accommodate the fixed spacing of multichannel pipets, the Model 96 can electrophorese up to 102 lanes of samples and standards, and the even bigger Model 192 can analyze up to 200 lanes of samples and standards — enough room for samples and standards from two 96-well plates. Just as for Sub-Cell GT systems, casting of agarose gels is quick and hassle free.



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Bio-Rad Has a Sub-Cell System That's Right for You

New, Convenient Sub-Cell Systems

Mini-Sub Cell GT System

Speed up your DNA separations using the Mini-Sub cell GT cell. The short, slim format allows 7 and 10 cm runs, making it a highly economical choice. Small DNA fragments can be separated in as little as 15 minutes. Up to 30 samples can be run simultaneously.

Mini ReadySub-Cell GT

The mini ReadySub-Cell GT cell is identical to the Mini-Sub cell GT, except it is dedicated to running ReadyAgarose precast gels. This cell does not include casting gates, tray, or combs.

Wide Mini-Sub Cell GT System

Increase your sample capacity and run up to three times more samples than in other mini cells. The wide platform is ideal for fast screening applications. Up to 60 samples can be run simultaneously.

Wide Mini ReadySub-Cell GT

The wide mini ReadySub-Cell GT cell is identical to the wide Mini-Sub cell GT, except it is dedicated to running ReadyAgarose precast gels. This cell does not include casting gates, tray, or combs.

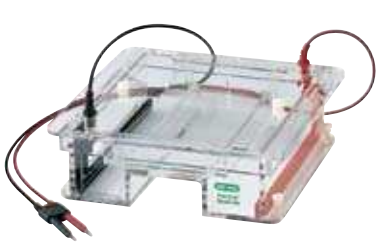
Sub-Cell GT Cell System

The Sub-Cell GT cell offers the widest choice of gel lengths, comb types, and lane configurations of any Sub-Cell model. Separate 30 samples over a distance of up to 25 cm, or use four combs and analyze as many as 120 samples.

Gel sizes, cm (W x L)	7 x 7 (Mini-Sub cell GT only) 7 x 10 (both)	15 x 7 (wide Mini-Sub cell GT only) 15 x 10 (both)	15 x 10 15 x 15 15 x 20 15 x 25
Sample throughput	8–30* (Mini-Sub cell GT) 8 or 12 (mini ReadySub-Cell GT)	10–60* (wide Mini-Sub cell GT) 20, 32, or 2 x 32 (wide mini ReadySub-Cell GT)	1–120**
Base buffer volume, L	~0.27	~0.65	~1.0
Cell size, cm (W x L x H)	9.2 x 25.5 x 5.6	17.8 x 25.5 x 6.8	18 x 40.5 x 9.4
Distance to electrode, cm	14.5	14.5	29.5
Bromophenol blue dye migration rates	4.5 cm/hr (at 75 V)	~4.5 cm/hr (at 75 V)	~3.0 cm/hr (at 75 V)

* Sample throughput value assumes 1–2 combs per gel.
** Sample throughput value assumes 1–4 combs per gel.

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High-Throughput Sub-Cell Models

Sub-Cell Model 96 Cell	Sub-Cell Model 192 Cell
Designed for high-throughput electrophoresis, the Model 96 cell can analyze up to 102 lanes of samples and standards. Combs are spaced to be compatible with multichannel pipets, making gel loading from a 96-well plate easy. Use the 26-well comb and shorter gel tray lengths for routine laboratory separations. Buffer recirculation ports ensure consistent performance for applications that require high voltages or extended runs.	The Model 192 cell has even greater sample capacity than the Model 96. The 25 cm extended gel length means that over 200 lanes are available for separations. This model is ideal for RFLP, Southern and northern blotting, and PCR sample screening.
25 x 10 25 x 15	25 x 10 25 x 15 25 x 20 25 x 25
24–96*	24–192**
~2.0	~3.0
29 x 30 x 9	29 x 40 x 9
22.0	32.0
~6.2 cm/hr (at 200 V)	~5.2 cm/hr (at 200 V)

Features

All Sub-Cell systems have the features you want:

- Clear plastic construction for easy sample visualization
- UV-transparent gel trays with fluorescent ruler*
- Lock-in design to run ReadyAgarose precast gels
- Gel-casting gates to cast your own gels right in the cell, or optional caster for tape-free casting*
- Combs to fit every need (multichannel pipet compatible, fixed-height drop-in combs, adjustable-height combs, and preparative combs)*
- Buffer recirculation ports (Models 96 and 192 only)
- Easy-to-replace electrode assemblies

The Mini-Sub cell GT, wide Mini-Sub cell GT, and Sub-Cell GT cell models include the following features:

- Easy-to-clean electrodes — QuickSnap** electrodes are easy to remove, simplifying cleaning
- Leakproof system — new electrode design prevents buffer leaks from the base
- Intuitive setup — arrow on the side of the base indicates the direction of the run, ensuring proper gel orientation
- Simple assembly — color-coded, labeled electrodes and labeled base guarantee correct positioning of the lid on the base
- Easy lid removal — longer tabs on the base prevent incorrect lid positioning and enable easy removal of the lid, reducing buffer spillage
- Flexible design — UV-transparent gel trays, combs, and other accessories are compatible with both new and old models
- Environmentally friendly system — less plastic is used in manufacturing the redesigned model

Applications

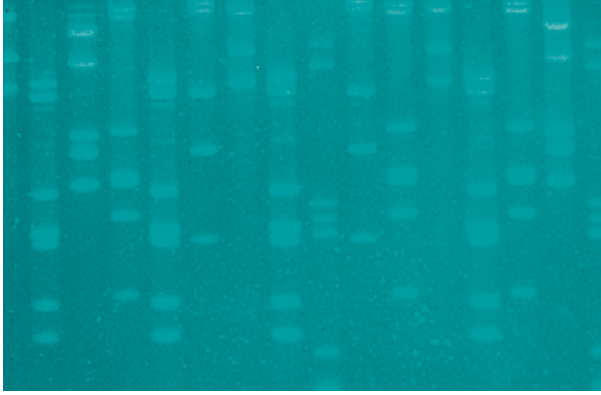
Sub-Cell systems are ideal for all kinds of applications:

- PCR fragment analysis
- Restriction digest analysis
- DNA fingerprinting
- Northern and Southern blotting
- Microsatellite analysis
- Cosmid library restriction analysis
- RFLP analysis
- RAPD analysis

* Purchase separately for ReadySub-Cell GT systems.
** Patent pending.

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Sub-Cell Essentials for the Total Solution



Reload With ReadyAgarose Precast Gels

Sample separation has never been easier. ReadyAgarose gels are a complete line of individually packaged precast agarose gels. The UV-transparent tray that holds each gel locks into Mini-Sub cell and wide Mini-Sub cell systems. These gels have been specifically designed to ensure handcast performance from precast gels. Choose from over 27 gel types that provide resolution of nucleic acids from 20 to 20,000 bp.

Quantitation

Bio-Rad has a line of affordable quantitation instruments to suit your needs. Choose the affordable SmartSpec™ Plus spectrophotometer for fast, accurate quantitation of nucleic acids. Choose the flexible VersaFluor™ fluorometer for more sensitive nucleic acid quantitation.

Power Your Sub-Cell System With the PowerPac™ Basic Power Supply



Four sets of output terminals deliver constant voltage or current with maximum outputs of 300 V, 400 mA, and 75 W. Both continuous and timed runs are easily programmed with a user-friendly interface, and the unit is lightweight and stackable. In addition, the vertical display is easily visible from shelf or bench level.

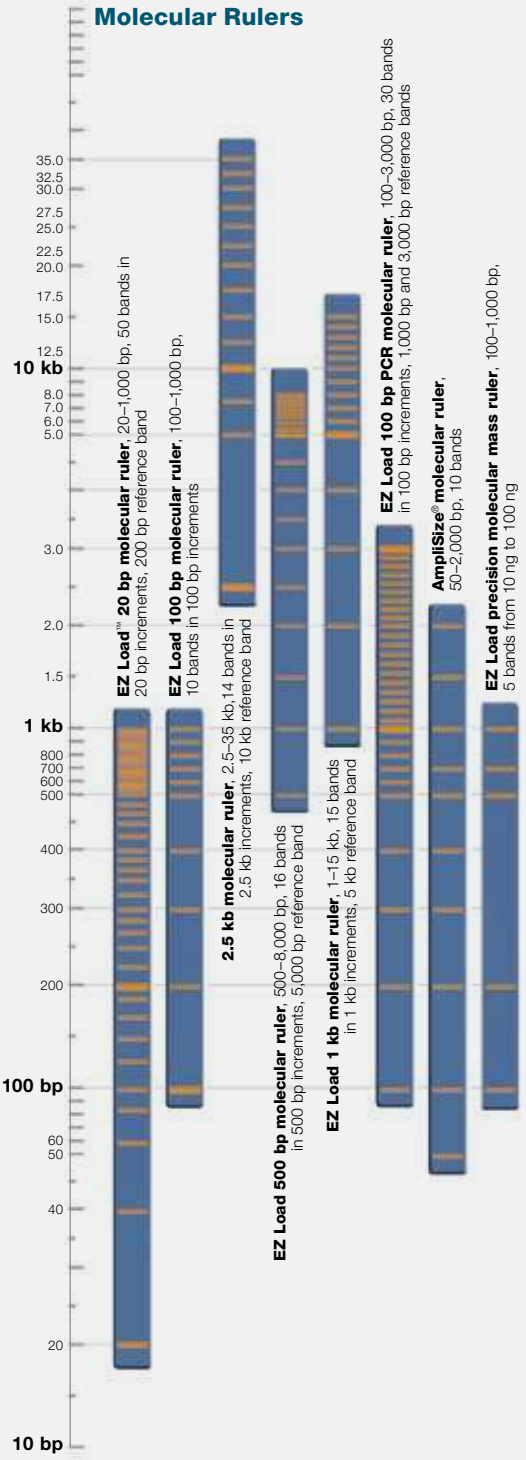
Handcasting Reagents, Buffers, and Fluorescent Stains



Bio-Rad maintains a complete line of quality reagents for preparing custom handcast gels. From powdered agarose to premixed buffer solutions, Bio-Rad has it all.

Complete your nucleic acid electrophoresis analysis by using ethidium bromide solution to visualize DNA.

Molecular Rulers



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Ordering Information

Catalog #	Description
Sub-Cell GT Systems*	
170-4406	**Mini-Sub Cell GT System**, with 7 x 7 cm tray
170-4466	**Mini-Sub Cell GT System**, with 7 x 10 cm tray
170-4486	**Mini-Sub Cell GT System**, with 7 x 7 cm tray, mini-gel caster
170-4467	**Mini-Sub Cell GT System**, with 7 x 10 cm tray, mini-gel caster
170-4487	**Mini ReadySub-Cell GT System**, includes buffer tank, lid with cables, leveling bubble
170-4405	**Wide Mini-Sub Cell GT System**, with 15 x 7 cm tray
170-4468	**Wide Mini-Sub Cell GT System**, with 15 x 10 cm tray
170-4485	**Wide Mini-Sub Cell GT System**, with 15 x 7 cm tray, mini-gel caster
170-4469	**Wide Mini-Sub Cell GT System**, with 15 x 10 cm tray, mini-gel caster
170-4489	**Wide Mini ReadySub-Cell GT System**, includes buffer tank, lid with cables, leveling bubble
170-4401	**Sub-Cell GT System**, with 15 x 10 cm tray
170-4402	**Sub-Cell GT System**, with 15 x 15 cm tray
170-4403	**Sub-Cell GT System**, with 15 x 20 cm tray
170-4404	**Sub-Cell GT System**, with 15 x 25 cm tray
170-4481	**Sub-Cell GT System**, with 15 x 10 cm tray, gel caster
170-4482	**Sub-Cell GT System**, with 15 x 15 cm tray, gel caster
170-4483	**Sub-Cell GT System**, with 15 x 20 cm tray, gel caster
170-4484	**Sub-Cell GT System**, with 15 x 25 cm tray, gel caster
Sub-Cell GT/PowerPac Basic Power Supply Systems**	
164-0300	**Mini-Sub Cell GT/PowerPac Basic System**, 100/120 V
164-0301	**Wide Mini-Sub Cell GT/PowerPac Basic System**, 100/120 V
164-0302	**Sub-Cell GT/PowerPac Basic System**, 100/120 V
Upgrade Kits***	
170-4491	**Mini Handcasting Kit**
170-4497	**Wide Mini Handcasting Kit**
Quantitation	
170-2525	**SmartSpec Plus Spectrophotometer**
170-2402	**VersaFluor Fluorometer**, 100/120/220 V, includes 1 standard cuvette holder, 100 standard cuvettes, and choice of 1 excitation and 1 emission filter
Imaging Instruments	
170-8190	**Molecular Imager® Gel Doc™ XR+ System**, PC and Mac
170-8251	**Molecular Imager® ChemiDoc™ XRS+ System**, PC
170-8252	**Molecular Imager ChemiDoc XRS+ System**, Mac

Catalog #	Description
Sub-Cell Model 96 and 192 Systems†	
170-4502	**Sub-Cell Model 96 Cell**, with 25 x 10 cm tray
170-4503	**Sub-Cell Model 96 Cell**, with 25 x 15 cm tray
170-4500	**Sub-Cell Model 96 Cell**, with 25 x 10 cm tray, gel caster
170-4501	**Sub-Cell Model 96 Cell**, with 25 x 15 cm tray, gel caster
170-4508	**Sub-Cell Model 192 Cell**, with 25 x 10 cm tray
170-4509	**Sub-Cell Model 192 Cell**, with 25 x 15 cm tray
170-4510	**Sub-Cell Model 192 Cell**, with 25 x 20 cm tray
170-4511	**Sub-Cell Model 192 Cell**, with 25 x 25 cm tray
170-4504	**Sub-Cell Model 192 Cell**, with 25 x 10 cm tray, gel caster
170-4505	**Sub-Cell Model 192 Cell**, with 25 x 15 cm tray, gel caster
170-4506	**Sub-Cell Model 192 Cell**, with 25 x 20 cm tray, gel caster
170-4507	**Sub-Cell Model 192 Cell**, with 25 x 25 cm tray, gel caster
Sub-Cell Model 96 and 192/PowerPac Basic Power Supply Systems††	
164-0305	**Sub-Cell Model 96/PowerPac Basic System**, 100/120 V
164-0306	**Sub-Cell Model 192/PowerPac Basic System**, 100/120 V
DNA Size Standards	
170-8351	**EZ Load 20 bp Molecular Ruler**, 20–1,000 bp, 100 applications
170-8352	**EZ Load 100 bp Molecular Ruler**, 100–1,000 bp, 100 applications
170-8353	**EZ Load 100 bp PCR Molecular Ruler**, 100–3,000 bp, 100 applications
170-8354	**EZ Load 500 bp Molecular Ruler**, 500–8,000 bp, 100 applications
170-8355	**EZ Load 1 kb Molecular Ruler**, 1–15 kb, 100 applications
170-8356	**EZ Load Precision Molecular Mass Ruler**, 100–1,000 bp, 100 applications
170-8200	**AmpliSize Molecular Ruler**, 50–2,000 bp, 50 applications
170-8205	**2.5 kb Molecular Ruler**, 2.5–35 kb, 100 applications
Fluorescent Stains	
161-0433	**Ethidium Bromide Solution**, 10 mg/ml, 10 ml
Premixed Buffers	
161-0733	**10x TBE**, 1 L
161-0770	**10x TBE**, 5 L cube
161-0743	**50x TAE**, 1 L
161-0773	**50x TAE**, 5 L cube

* All Sub-Cell GT systems include a buffer tank, a safety lid with cables, a leveling bubble, casting gates, and two 1.5 mm thick fixed-height combs: 15- and 20-well combs for Sub-Cell and wide Mini-Sub cell, 8- and 15-well combs for Mini-Sub cell.

** All Sub-Cell GT/PowerPac Basic systems include the same accessories listed above and a gel caster.

*** Handcasting kits can be purchased to upgrade ReadySub-Cell systems to Mini-Sub or wide Mini-Sub cell systems. The kits include casting gates and 1.5 mm thick 8- and 15-well combs for mini ReadySub-Cell models or 15- and 20-well combs for wide mini ReadySub-Cell models.

† All Sub-Cell Model 96 and 192 systems include a buffer tank, a safety lid with cables, a leveling bubble, casting gates, and a 51-well, 1.5 mm thick comb.

†† All Sub-Cell Model 96 and 192/PowerPac Basic systems include a gel caster and 25 x 10 cm tray (Model 96) or 25 x 15 cm tray (Model 192).

	ReadyAgarose Mini Gels			ReadyAgarose Wide Mini Gels			
	8-Well (20 µl)	12-Well (10 µl)	2 x 8-Well (20 µl)	20-Well (20 µl)	32-Well (15 µl)	2 x 32-Well (15 µl)	4 x 26-Well (15 µl)
TBE Gels							
1% plus ethidium bromide	161-3004	161-3010	—	161-3028	161-3034	161-3038	161-3060
3% plus ethidium bromide	161-3006	161-3012	—	161-3030	161-3036	161-3040	161-3062
TAE Gels							
1%	161-3015	—	161-3057	—	—	—	—
1% plus ethidium bromide	161-3016	161-3022	—	161-3044	161-3050	161-3054	161-3063
3%	161-3017	—	—	—	—	—	—
3% plus ethidium bromide	161-3018	161-3024	—	161-3046	161-3052	161-3056	161-3065

Gel shelf life at room temperature: 12 months without ethidium bromide, 6 months with ethidium bromide.

For more information, go to **www.bio-rad.com/horizontalelectro/**, contact your local Bio-Rad representative, or call 1-800-4BIORAD (1-800-424-6723). Visit us on the Web at **discover.bio-rad.com**.

Practice of the patented polymerase chain reaction (PCR) process requires a license.

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