

E-Gel® 96 system *streamlines high-throughput agarose electrophoresis*

Turn routine agarose gel electrophoresis into an automated, high-throughput operation with the E-Gel® 96 system. It's ideal for simultaneously analyzing hundreds of DNA samples for fast results. The E-Gel® 96 system is fully automated and robot-compatible to save you time and accelerate your high-throughput DNA screening efforts.

electrophoresis made ultra-fast

E-Gel® 96 gels are bufferless, pre-cast gels that make high-throughput agarose gel electrophoresis ultra-fast. Each self-contained E-Gel® 96 cassette is a complete electrophoresis system that includes agarose, ethidium bromide, and electrodes, all packaged inside a dry, disposable, UV-transparent cassette. There are no gels to pour, buffer to prepare, or staining and destaining procedures to follow, saving you hours of time and effort. In fact, you'll be able to run and analyze 96 samples per gel in just 12 minutes.

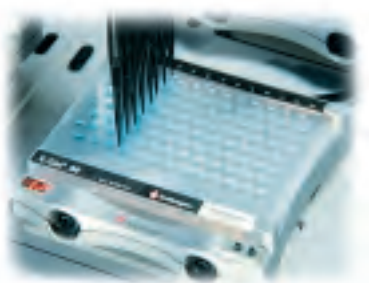
patented 96-well format

The E-Gel® 96 system is specifically designed to automate your high-throughput DNA screening assignments. Each E-Gel® 96 gel contains 96 sample lanes and 8 marker lanes. Each well holds a maximum volume of 25 µl. Lanes are staggered to provide a 1.6 cm run length for resolution between 100 bp and 10 kb (table 1). This patented, staggered-well format is compatible with 8-, 12-, or 96-tip robotic loading systems to provide easy automation (figure 1) and eliminate the time and effort associated with manual loading.

table 1 - E-Gel® 96 gel resolution

Agarose %	Resolution range
1% agarose	1 kb to 10 kb
2% agarose	100 bp to 2 kb

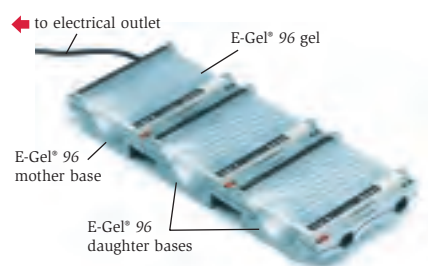
figure 1 - E-Gel® 96 gel loading is robot-compatible



precise identification

With E-Gel® 96 gels, band identification and tracking are effortless. Each cassette contains fluorescent-labeled lane numbers that instantly photograph during photo documentation. In addition, each cassette is marked with an EAN13 barcode (readable by most commercially available robotic

figure 2 - the E-Gel® 96 mother/daughter base combination



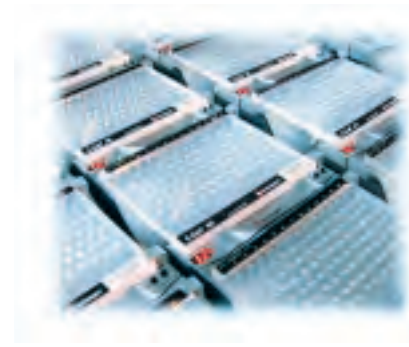
systems) to provide precise and automatic gel number tracking.

space-saving apparatus

E-Gel® 96 gels run in a specially designed, space-saving system of E-Gel® 96 mother and daughter base combinations (figure 2). Each E-Gel® 96 mother and daughter base measures only 5.5 x 6 inches and consists of a gel base and power supply all in one. Mother bases contain a power cord that plugs directly into any standard electrical outlet.

Daughter bases connect to mother bases and to each other. To create a multi-unit system on your benchtop, simply connect multiple daughter bases to a single mother base. Each base runs independently and shuts off automatically using its own built-in timer, alarm, and lighted display so you'll never overrun a gel. Mother and daughter bases are supplied pre-programmed for a 12-minute run time,

figure 3 - run over twenty E-Gel® 96 gels at once

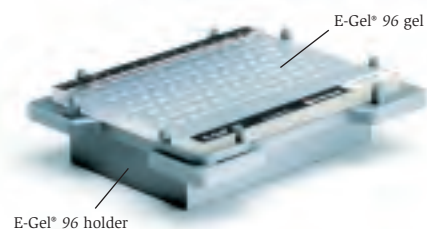


continued on page 5

E-Gel® 96 System

continued from page 4

figure 4 - the E-Gel® 96 holder



but can be set for 1 to 99 minutes to meet your specific needs. Using the E-Gel® 96 system, you can run over twenty gels at once (figure 3, page 4)—that's 1,920 samples in just 12 minutes.

robot-compatible design

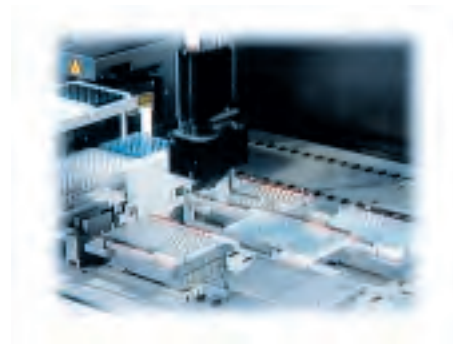
Designed with the SBS (Society for Biomolecular Screening) standard 96-well plate format, E-Gel® 96 mother and daughter bases fit on most robotic platforms. This

enables you to load and run E-Gel® 96 gels directly on your robot. For an alternative loading option, try the E-Gel® 96 holder (figure 4). This holder secures the E-Gel® 96 cassette in place for robot-mediated sample loading (figure 5). This allows you to conveniently load your E-Gel® 96 gels when your E-Gel® 96 bases are in use or set up in a different location. The E-Gel® 96 holder provides reproducible placement and loading from one gel to the next—without adjusting the robot's loading software.

software streamlines analysis

The E-Gel® 96 Editor is user-friendly, Windows®-compatible software that allows you to quickly arrange and analyze E-Gel® 96 gel results. The E-Gel® 96 Editor reconfigures the staggered lanes obtained from your photo documentation system into a side-by-side format (figure 6) for easy comparison, documentation, or further analysis.

figure 5 - E-Gel® 96 holders on a robotic platform



try the E-Gel® 96 system today

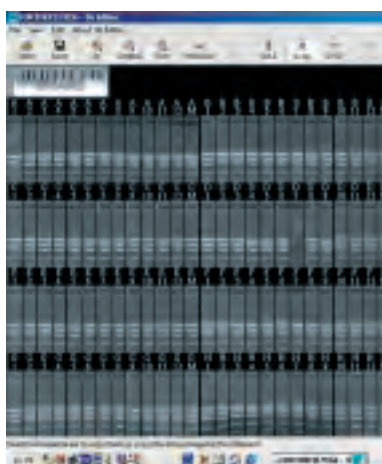
Streamline your high-throughput DNA agarose electrophoresis applications. Get plugged into the E-Gel® 96 system today. To learn more about the E-Gel® 96 system, visit www.invitrogen.com/egels.

Product	Quantity	Cat. no.
E-Gel® 96 1% agarose gel	8 gels	G7008-01
E-Gel® 96 2% agarose gel	8 gels	G7008-02
E-Gel® 96 mother base	1 base	G7100-01
E-Gel® 96 daughter base	1 base	G7200-01
E-Gel® 96 holder	2 holders	G7300-01
E-Gel® 96 Editor software	1 copy	FREE

figure 6 - the E-Gel® 96 Editor software reconfigures the E-Gel® 96 gel's staggered-well format



Lanes from an E-Gel® 96 gel image are aligned using the E-Gel® 96 Editor software.



Reconfigured E-Gel® 96 gel data is easily analyzed.



For more information

See [page 6](#) to learn about DNA markers specifically designed for use with the E-Gel® 96 System.

* The E-Gel® 96 Editor software is available free of charge with purchase of E-Gel® 96 gels and related equipment. This software may be downloaded from the Invitrogen web site at www.invitrogen.com/egels.

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