

# Easy-to-use, 48-well, pre-cast 4% agarose gels increase throughput

Stop wrestling with traditional 4% agarose gels when separating low molecular weight DNA fragments and PCR samples. The new E-Gel® 48 pre-cast agarose gel is a 48-well medium-throughput, ready-to-use 4% gel that turns this struggle into a Plug & Play operation.

## easy-to-use 4% pre-cast gel

4% agarose gels are notoriously difficult to work with—they are hard to pour, difficult to handle, and frequently crack—and they tend to cloud over and obscure results. The new easy-to-use E-Gel® 48 gels are pre-cast 4% agarose gels that get you the medium-throughput separation results you want without the hassle. Each self-contained E-Gel® 48 gel is a complete electrophoresis system that includes 4% high-resolution agarose, ethidium bromide, and electrodes in a 48-well disposable, UV-transparent cassette. There are no gels to pour, buffers to prepare, or staining and destaining procedures to follow, saving you hours of time. You'll effortlessly separate small DNA fragments from 10-400 bp.

## designed for fast analysis

Using E-Gel® 48 gels, you'll analyze 48 samples in just 20 minutes. The gel design

**figure 1** - the E-Gel® 48 gel runs in the E-Gel® 96 mother and daughter bases



includes two rows, each containing 24 sample and 2 molecular weight marker wells. The well spacing allows loading with an 8- or 12-multichannel pipettor. For your convenience, fully automated robotic loading is also possible. You'll quickly load samples and be on your way to analyzing results.

**table 1** - distinguish between closely sized bands on E-Gel® 48 gels

Band size	Base pair separation between adjacent bands
5 bp - 40 bp	5 bp
40 bp - 80 bp	10 bp
80 bp - 175 bp	20 bp
175 bp - 300 bp	50 bp
300 bp - 600 bp	100 bp

## Plug & Play bases

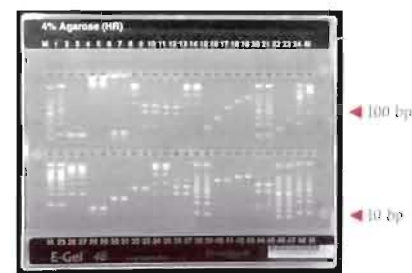
E-Gel® 48 gels run in the E-Gel® 96 mother and daughter base combinations (figure 1). Each base is a gel base and power supply all in one and is programmable for the 20-minute run time. The mother base contains a power cord that plugs directly into any standard outlet. Daughter bases connect to the mother base and to each other to create multi-unit systems. Each base runs independently, shuts off automatically, and features a built-in digital timer, alarm, and lighted display for Plug & Play operation.

## clear resolution

The E-Gel® 48 gels are made with the highest resolution agarose so you never have to worry about poor gel quality ruining your

results. You'll always achieve clear band resolution (figure 2) and distinct band separation (table 1).

**figure 2** - clear resolution on the E-Gel® 48 4% agarose gel



Various samples, including DNA ladders, dsRNA, and PCR products, ranging in size from 10-400 bp were run on an E-Gel® 48 gel.

## simplified separation

The easiest way to separate nucleic acid fragments between 10 and 400 bp is with E-Gel® 48 4% pre-cast gels. You'll eliminate the tedious task of preparing your gels, increase throughput, and get better results. Call and order today.

Product	Quantity	Cat. no.
E-Gel® 48 4% agarose gels	8 gels	G8008-04
E-Gel® 96 mother base	1 base	G7100-01
E-Gel® 96 daughter base	1 base	G7200-01
E-Gel® Low Range Quantitative DNA Ladder	100 apps	12373-031

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