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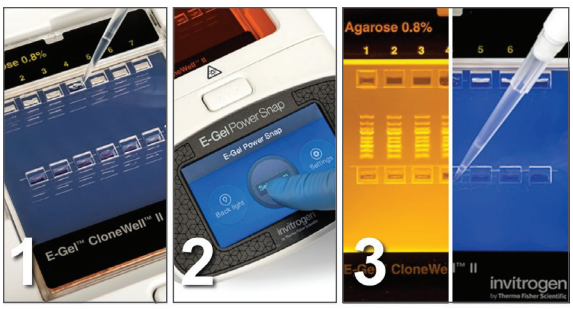
E-Gel CloneWell II agarose gels

The smartest way to gel-purify your DNA

- Gel-purify your DNA in 3 simple steps—load, run, retrieve
- Get improved cloning efficiencies
- Collect multiple DNA bands from the same gel lane

Gel-purify your DNA in 3 simple steps

Invitrogen™ E-Gel™ CloneWell™ II precast agarose gels are double-comb gels with a clever design to help simplify your workflow. Load your sample into the top row and electrophorese until your band migrates into the bottom row. Then simply pipet out your purified DNA band and you're ready to clone. That's it. No additional purification kits or steps are required. Use the Invitrogen™ E-Gel™ Power Snap System, a compact, self-contained device with a built-in power supply and blue-light transilluminator, to run and visualize E-Gel CloneWell II agarose gels.



Load Run Retrieve

Gel purification in three simple steps.

Collect multiple DNA bands from the same gel lane

With E-Gel CloneWell II agarose gels, you can retrieve multiple DNA bands from the same sample/lane, which helps save materials and time. Avoid the hassle of cutting out gel bands and using multiple columns for further gel extraction. With E-Gel CloneWell II agarose gels, just retrieve the bands one at a time as they migrate into the collection well. No additional purification is required.

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Get improved cloning efficiencies

Exposure of your DNA sample to UV light during visualization may lead to DNA damage and reduced cloning efficiencies. Using E-Gel CloneWell II agarose gels with the E-Gel Power Snap System eliminates UV damage and cloning efficiency compared to conventional methods. Results obtained using the Invitrogen™ TOPO™ TA Cloning™ Kit after E-Gel CloneWell II gel purification, compared to a conventional method, are shown in Figure 1.

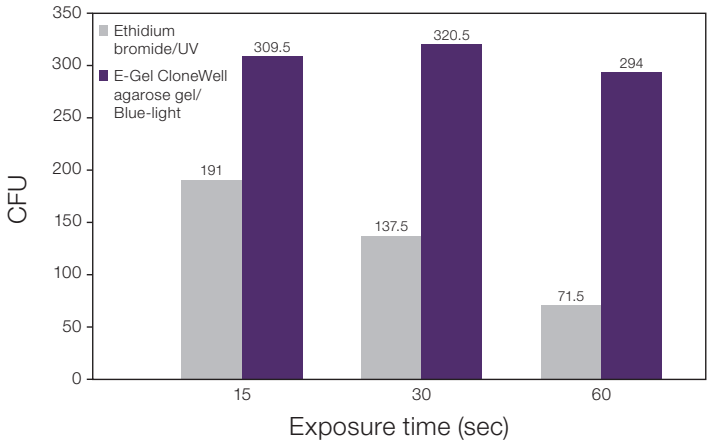

Figure 1. Improved cloning efficiency using E-Gel CloneWell agarose gels with blue-light transillumination. A PCR reaction containing an 850 bp amplicon was separated on either an E-Gel CloneWell agarose gel or a traditional agarose gel containing ethidium bromide. The DNA band retrieved from the E-Gel CloneWell agarose gel was visualized using blue-light transillumination. DNA separated on the traditional gel was viewed using UV light and isolated by first cutting a gel slice with a razor blade and then using a commercially available gel extraction kit. In both cases, the exposure of the DNA to the light source was 15, 30, or 60 sec. Both fragment samples were cloned using the TOPO TA Cloning Kit (Cat. No. K460040) and transformed into Invitrogen™ MultiShot™ TOP10 chemically competent cells (Cat. No. C40005). Shown are average numbers of colony-forming units (CFU) obtained for each exposure time and cloning method.

Ordering information

Product	Quantity	Cat. No.
E-Gel Power Snap Electrophoresis Device Starter, CloneWell, (0.8%)	1 kit*	G8168ST
E-Gel CloneWell II Agarose Gels with SYBR Safe DNA Gel Stain, 0.8%	18 gels	G6618-18
E-Gel 1Kb Plus Express DNA Ladder	100 applications	10488091

* Includes 1 E-Gel Power Snap System, 1 E-Gel 1Kb Plus Express DNA Ladder, and 18 E-Gel CloneWell II Agarose Gels with SYBR Safe DNA Gel Stain, 0.8%.

Find out more at **thermofisher.com/clonewell**

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