



Reveal data that drive discovery in 3... 2... 1...

A snapshot in a simple, three-step workflow with
E-Gel Power Snap electrophoresis systems

Evolve your workflow with E-Gel Power Snap electrophoresis systems

The Invitrogen™ E-Gel™ Power Snap Plus and E-Gel™ Power Snap Lite electrophoresis systems offer significant enhancements over the traditional, time-consuming process of casting gels, preparing buffers, and monitoring gel runs. These integrated, compact systems for running precast agarose gels and imaging them are designed to maximize efficiency and convenience. E-Gel Power Snap electrophoresis systems simplify the workflow to three safer, faster steps.



1 Load



2 Run





3 Analyze

Highly reproducible results in as little as 10 minutes with 3 easy steps:

- 1. Load**—No need to mix and pour the gels. Precast Invitrogen™ E-Gel™ cassettes contain the gel, buffer, and DNA stain. Reduce gel-pouring errors and exposure to hazardous chemicals like ethidium bromide.
- 2. Run**—Select a preprogrammed protocol on the intuitive touchscreen.
- 3. Analyze**—View results in real time using the camera. Print and transfer results via the Thermo Fisher™ Connect Platform or USB for further analysis.

Instrument options—no matter the application or throughput

E-Gel Power Snap electrophoresis systems can handle a wide range of applications, from routine DNA and RNA separations to high-resolution genotyping. Invitrogen™ E-Gel™ precast agarose gels are ready to use and self-contained in a cassette, with embedded electrodes and DNA stain, including Invitrogen™ SYBR™ Safe DNA gel stain or SYBR™ Gold nucleic acid gel stain.

	E-Gel Power Snap Plus Electrophoresis System	E-Gel Power Snap Lite Electrophoresis System
Explore systems in 3D at thermofisher.com/egelsystems		
Capability overview	Flexible, high-resolution DNA screening; designed for dedicated DNA or RNA analysis workflows, supporting both low- and high-throughput nucleic acid imaging and analysis	For routine DNA and RNA electrophoresis; optimized for quick verification and supporting workflow checks; suitable for running 11- to 22-well precast agarose gels
Camera resolution	13 MP	4 MP
Image storage	64 GB	32 GB
Cloud-enabled	Yes	No
iBright Analysis Software	Yes	No
Base module dim. (L x W x H)	29.1 x 22.0 x 10.1 cm	24.2 x 13.0 x 7.0 cm
Full system dim. (L x W x H)	29.1 x 22.0 x 32.9 cm	26.0 x 13.0 x 20.0 cm
Printer-compatible	Yes, Sony™ UP-X898MD thermal printer	No
E-Gel agarose gel compatibility	11-, 22-, 48-, and 96-well ,* CloneWell II , and SizeSelect II gels**	11- and 22-well , CloneWell II , and SizeSelect II gels

* Contain additional wells for marker lanes.

** The Invitrogen™ E-Gel™ 11-well, 22-well, CloneWell™ II, and SizeSelect™ II gels require the use of an adapter with the E-Gel Power Snap Plus system. The adapter is provided with the system.

When you need the full picture, use the E-Gel Power Snap Plus system

Advanced imaging and integrated protocols for comprehensive electrophoresis analysis

The E-Gel Power Snap Plus Electrophoresis System is a fully integrated solution that combines gel running, real-time visualization, and high-resolution imaging—all in one compact platform. Designed for flexibility, it accommodates a broad range of sample throughputs, from a few samples to 96 in a single run. With intuitive operation and streamlined analysis, the E-Gel Power Snap Plus system simplifies electrophoresis and supports the depth and confidence required for dedicated DNA or RNA analysis workflows.

Key features:

- **Advanced**—capture high-resolution images with a 13 MP camera for detailed DNA or RNA analysis
- **Scalable**—support both low- and high-throughput workflows, including 48- and 96-well gels
- **Integrated**—combine gel running, real-time visualization, and on-instrument image capture in a single, compact system
- **Connected**—export, store, and analyze data with cloud-enabled transfer and Invitrogen™ iBright™ Analysis Software compatibility



Fully integrated

All steps performed on a single instrument



Simple and fast operation

Preset protocols, intuitive user interface, and no need for gel monitoring



Small footprint

1/5 the size of a conventional imager



Cloud/network connectivity

Easy transfer of files, iBright Analysis Software compatibility, and 2 TB of online storage



Powerful and user-friendly

Large 8" touchscreen, 64 GB of internal memory, and high-resolution 13 MP camera



Direct printing

Print directly from the camera to a compatible printer

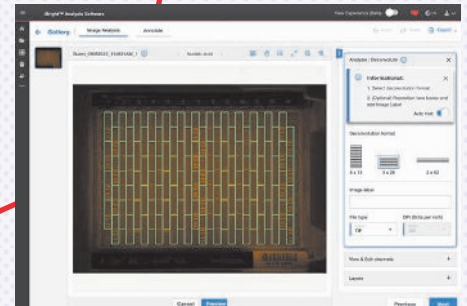


Convenient

11- to 96-well E-Gel agarose gels with included accessories

Easily export and analyze your results

Connect the E-Gel Power Snap Plus system to internal servers or the Connect Platform via wired or wireless connection to export images in the format you need, including .g2i for advanced analysis. iBright Analysis Software enables background-corrected band intensity quantification and 96-well lane deconvolution, and is available as a free download on the Connect Platform, where gel images can be securely stored and accessed in the cloud.



96-well gel deconvolution using iBright Analysis Software on the Connect Platform

Electrophoresis so fast and easy—it's a snap

Focus on what matters with quick nucleic acid verification using the E-Gel Power Snap Lite system

For labs planning to run 22 samples or fewer per run, the E-Gel Power Snap Lite Electrophoresis System provides electrophoresis and gel imaging all in one instrument. Like the E-Gel Power Snap Plus model, you can run gels and capture images with dry E-Gel precast agarose gels, eliminating the tedious tasks of making buffers and pouring agarose. Designed for supporting workflow checks and routine DNA and RNA analysis, the compact system offers efficient results without added complexity.

Key features:

- **Streamlined**—optimized for quick DNA and RNA verification within everyday workflows
- **Redesigned**—updated touchscreen interface with preset protocols for fast, consistent runs
- **Compact**—small-footprint design ideal for space-conscious labs and shared benches
- **More sustainable**—instrument shell contains at least 10% postconsumer recycled content



Redesigned

Updated touchscreen interface with preset protocols for intuitive, simplified operation



Integrated

Run and visualize gels in a single, self-contained system



More sustainable

Instrument shell contains at least 10% postconsumer recycled content



Compact

Small, space-saving footprint ideal for shared benches and space-conscious labs



Enhanced imaging

4 MP camera for clear gel documentation and confident verification

Request a demo or a custom quote for E-Gel Power Snap Plus systems at thermofisher.com/egelsystems



Did you know?

E-Gel Power Snap Plus or Lite base units can run gels independently without the camera module attached, enabling flexible workflows and allowing one camera to be shared across multiple bases.

Bufferless E-Gel precast agarose gels for DNA and RNA electrophoresis

Designed for use with E-Gel Power Snap systems, E-Gel precast gels are bufferless, self-contained and ready to use, with agarose, electrodes, and DNA stains (SYBR Safe or SYBR Gold gel stains). They are packaged inside a disposable, transparent cassette and can be used to analyze both DNA and RNA.* Just load samples and run.



- **Fast**—get results quickly (in as little as 10 minutes)
- **Versatile**—fit for many applications with a variety of formats and percentages (0.8% to 4.0%)
- **Safe**—E-Gel gels with SYBR Safe stains are a safer alternative than ethidium bromide
- **Sensitive**—get both sensitivity and speed with Invitrogen™ E-Gel™ EX gels

Selection guide for E-gel precast gels

Application	Product	Agarose	Resolution	Sample wells	Default run time	Optimal sample load	Amount	Cat. No.		
Routine agarose workflow	E-Gel Agarose Gels with SYBR Safe DNA Stain	1%	100–5,000 bp	11 wells	26 min	5–500 ng	10 gels	A42100		
		2%	50–2,000 bp				2 x 10 gels	A45202		
		4%	10–500 bp		30 min		5 x 10 gels	A45203		
	E-Gel Double Comb Agarose Gels with SYBR Safe DNA Stain	1%	100–5,000 bp	22 wells	13 min		10 gels	A42135		
			2%				50–2,000 bp	2 x 10 gels	A45204	
		2%	10 gels				A45205			
			2 x 10 gels				A42136			
			5 x 10 gels				A45206			
			10 gels				A42347			
			2 x 10 gels				A44885			
Fast and ultra-sensitive DNA sample analysis	E-Gel EX Agarose Gels with SYBR Gold II DNA Stain	1%	100–5,000 bp	11 wells	10 min	0.5–50 ng	10 gels	G401001		
		2%	50–2,000 bp				2 x 10 gels	G402021		
		4%	20–800 bp		15 min		10 gels	G401002		
	E-Gel EX Double Comb Agarose Gels with SYBR Gold II DNA Stain	1%	100–5,000 bp	22 wells	5 min		2 x 10 gels	G402022		
			2%				50–2,000 bp	10 gels	G401004	
		2%	10 gels				A42345			
			2 x 10 gels				A44887			
			5 x 10 gels				A44888			
NGS size selection workflow	E-Gel NGS Agarose Gels with SYBR Safe DNA Stain	0.8%	800 bp–10 kb	11 wells	26 min	5–500 ng	10 gels	A25798		
		High-throughput DNA electrophoresis	E-Gel 48 Agarose Gels with SYBR Safe DNA Stain	1%	400–10,000 bp	48 wells	20 min	5–500 ng	8 gels	G820801
2%	50–3,000 bp			4 x 8 gels	G820841					
4%	10–500 bp			8 gels	G820802					
20 min	4 x 8 gels			G820842						
	8 gels			G820804						
	4 x 8 gels			G820844						
E-Gel 48 Agarose Gels with Ethidium Bromide	1%		400–10,000 bp	20 min	20–500 ng	8 gels	G800801			
			2%			50–3,000 bp	8 gels	G800802		
	4%		10–400 bp			8 gels	G800804			
	17 min		1%			400–10,000 bp	96 wells	5–500 ng	8 gels	G720801
						2%			100–2,000 bp	4 x 8 gels
			12 min			8 gels			G720802	
4 x 8 gels		G720842								
E-Gel 96 Agarose Gels with Ethidium Bromide	1%	400–10,000 bp	12 min	20–500 ng	8 gels	G700801				
		2%			100–2,000 bp	8 gels	G700802			

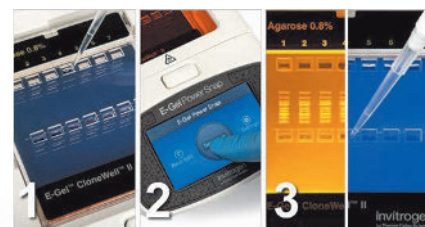
* For RNA analysis, use E-Gel EX precast agarose gels.

E-Gel specialty agarose gels for cloning and NGS workflows

Purifying DNA bands from agarose is tedious and inefficient. Invitrogen™ E-Gel™ CloneWell™ II and E-Gel™ SizeSelect™ II agarose gels feature double rows of wells designed for targeted DNA purification and size selection for cloning or NGS library preparation. With the E-Gel system, you can watch a band of interest migrate and collect it directly from the capture well—without cutting or melting agarose.

Simplified in three steps:

- **Load**—add your sample to the top row
- **Run**—electrophorese until the band migrates into the capture well
- **Retrieve**—pipet out the DNA fragment of interest directly from the gel



Load Run Retrieve

No extra steps—no additional purification kits or column-based extraction required.

Application	Product	Agarose	Resolution	Sample wells	Default run time	Optimal sample load	Quantity	Cat. No.
Cloning workflow	E-Gel CloneWell II Agarose Gels with SYBR Safe DNA Stain	0.8%	100 bp–6 kb	7 wells	12 min	5–500 ng	10 gels	G661818
NGS size selection workflow	E-Gel SizeSelect II Agarose Gels with SYBR Gold II DNA Stain	2%	50 bp–2 kb	7 wells	8 min	0.5–300 ng	10 gels	G661012

E-Gel DNA ladders for accurate sizing

Designed for use with E-Gel precast agarose gels, Invitrogen™ E-Gel™ DNA ladders help provide reliable fragment sizing across a broad range of applications. Available in multiple formats and size ranges, these ready-to-use ladders are optimized for consistent performance with E-Gel systems.

E-Gel 96 High Range DNA Marker	E-Gel 1 Kb Plus DNA Ladder	E-Gel 1 Kb Plus Express DNA Ladder	E-Gel 50 bp DNA Ladder	E-Gel Low Range Quantitative DNA Ladder	E-Gel Sizing DNA Ladder	E-Gel Ultra Low Range DNA Ladder
400–10,000 bp	100–15,000 bp	100–5,000 bp	50–2,500 bp	100–2,000 bp	50–1,500 bp	10–300 bp

Ready to focus on what matters?

Leave behind mixing, pouring, and separate imaging setups. With integrated visualization and ready-to-run precast gels, E-Gel systems bring DNA and RNA analysis into sharp focus—so you can capture results with confidence.



Notes

Learn more at thermofisher.com/egelsystems

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