FLASHGEL™ SYSTEM

5 minute...

DNA separation…

CAMBREX

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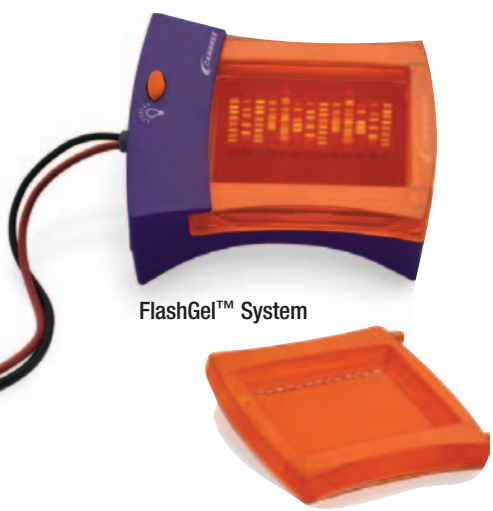
FlashGel™ System

The fastest, most sensitive and convenient way to separate DNA



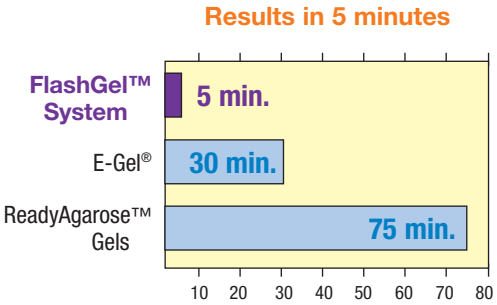
FlashGel™ System

The FlashGel System is the fastest way to separate DNA and the only way to watch DNA migration as it happens. This revolutionary new tool separates DNA in 2–7 minutes. Monitor gel runs right at the bench, without UV light. The highly sensitive system allows a 5X reduction in DNA levels – saving both time and money.

- Get results in 5 minutes or less
- Watch DNA migrate at your bench, in real time without UV light
- Enjoy outstanding resolution and exquisite sensitivity

The FlashGel System consists of enclosed, disposable, precast agarose gel cassettes and a combination electrophoresis and transilluminator unit.

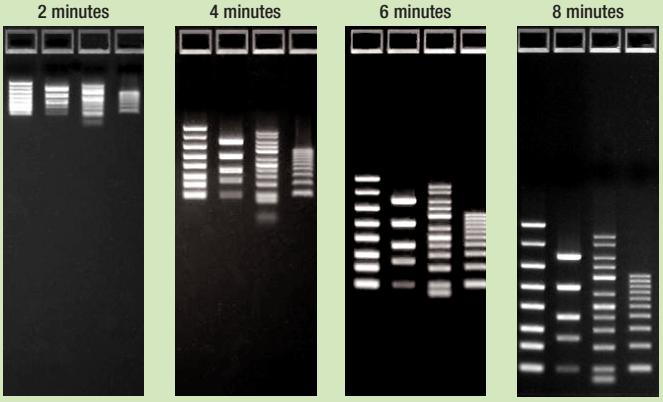
- **FlashGel™ Cassettes** contain precast, prestained agarose gels and buffer – no need for gel preparation, buffer addition or gel staining.
- **The FlashGel™ Dock** is an electrophoresis apparatus with a built-in transilluminator that provides both separation and detection.



Five minute DNA separation

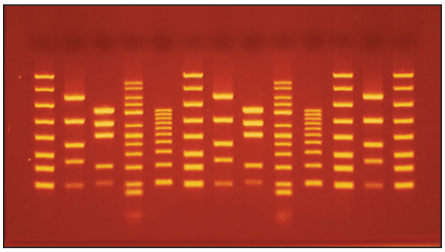
The FlashGel System enables high voltage separation (275 V for 2-7 minutes) of fragments 50 bp to 4 kb. DNA separates in a fraction of the time required by competitor precast gel systems.

Separation at various run times on the FlashGel System



Markers run on a 1.2% FlashGel™ Cassette, 12+1 well format. 275 V for times as shown. From left to right: FlashGel™ Marker, FlashGel™ QuantLadder, Cambrex Marker 50 bp – 2,500 bp, Cambrex 100 bp Ladder.

DNA bands as viewed during a run, on the FlashGel Dock



Real time visualization

Built-in illumination, enabled by Dark Reader™ Technology, allows you to view DNA under ambient light as it migrates through the gel. Stop the run when desired separation is reached (in as little as 2 minutes depending upon fragment of interest). Safely view the cassette on the lighted dock without additional eye protection. DNA bands separated on FlashGel Cassettes are also detectable by UV light and may be photographed using standard gel documentation systems.

Fast, simple procedure

The procedure is simple and takes just over 5 minutes:

1. Insert cassette into dock
2. Plug in electrophoresis power supply
3. Pre-run for 15 seconds
4. Turn off voltage and disconnect cables
5. Load samples
6. Plug in and turn on light and voltage
7. Watch until desired separation is achieved
8. Photograph using standard documentation systems

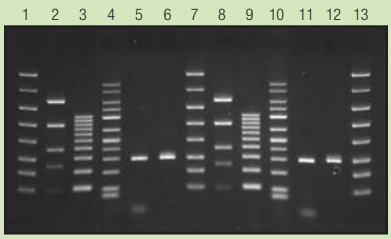
Exquisitely sensitive detection

The FlashGel System is 5-20 times more sensitive than gels stained with ethidium bromide stain, and will detect <1 ng DNA/band. Reduce DNA concentration and overall sample volume to conserve precious samples and save money — without direct handling of hazardous staining solutions.

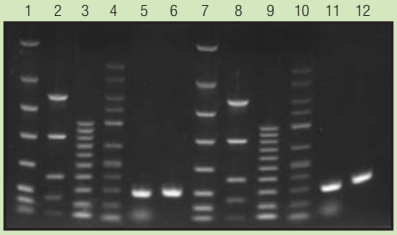
Superior resolution

Resolve fragments 50 bp to 4 kb in less than 5 minutes, and see clean, sharp band separation and straight, uniform sample lanes.

Comparison of FlashGel™ System and E-Gel® separations



1.2% FlashGel™ Cassette, 12+1 well format. 275 V, 7 minute run on the FlashGel™ Dock.



1.2% E-Gel, 12 well format. 30 minute run on the E-Gel PowerBase v.4.

Lanes 1&7: FlashGel™ DNA Marker; Lanes 2&8: FlashGel™ QuantLadder; Lanes 3&9: Cambrex 100 bp Ladder; Lanes 4&10: Cambrex 50-2,500 bp Marker; Lanes 5&11: 285 bp ß-Actin PCR; Lanes 6&12: 294 bp Ambion control PCR. Samples diluted with 1X FlashGel™ Loading Dye prior to loading. Dilutions and load volumes optimized for each sample in each gel system.

The ideal sample screening tool

The FlashGel System is ideal for checking PCR† or restriction fragments. Now you can check samples quickly, without stopping to spend valuable time on gel preparation and then waiting 30 minutes or more for results.

Product offering

Purchase components of The FlashGel System separately or as a Starter Kit. Components include: FlashGel™ Dock; FlashGel™ Cassettes; FlashGel™ DNA Marker and FlashGel™ QuantLadder; and FlashGel™ Loading Dye. The markers and dye are in a convenient, ready-to-load format and are recommended for best performance.

Ordering Information:

Catalog No.	Product	Size/Format/Contents
57025	FlashGel™ Dock	
57023	FlashGel™ Cassettes	1.2% agarose, 12+1 well format, 9 pack
50462	FlashGel™ Loading Dye	5 x 1 ml, 5X concentrate
50473	FlashGel™ DNA Marker	Ready-to-load: 100 bp - 4,000 bp, 500 µl
50475	FlashGel™ QuantLadder	Ready-to-load: 100 bp - 1,500 bp, 250 µl
57026	FlashGel™ Starter Pack	Includes: FlashGel Dock; 9 FlashGel Cassettes; 1 ml FlashGel Loading Dye and 150 µl FlashGel DNA Marker.

Specifications

Separation range:	50 bp – 4,000 bp (optimal separation between 150 bp and 2,500 bp)
Storage:	Room temperature for 5 months from date of manufacture
Well volume:	For best results do not exceed 5 µl
Gel size:	70 mm (L) x 84 mm (W) x 2 mm (H)
Cassette size:	115 mm (L) x 107 mm (W) x 17 mm (H)
Dock size:	134 mm (L) x 120 mm (W) x 54 mm (H)

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To locate your local Cambrex Distributor, visit www.cambrex.com

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E-Gel is a trademark of Ethrog BioTechnologies, Ltd.
Dark Reader is a trademark of Clare Chemical Research, Inc.

† The PCR process may be covered by one or more third-party patents.

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