



Reliant™ Minigels

Versatile Minigels for Routine DNA Separation and Recovery

Reliant™ Gels are versatile and convenient minigels for nearly any application. Each gel is precision manufactured for rapid and reproducible resolution of DNA sizes from 8 bp to 10 kb. Reliant™ Gels are available in a variety of well formats and agarose concentrations, in TAE and TBE buffer and most are prestained with ethidium bromide. All Reliant gels can be prestained with Ethidium Free stain upon request.

Benefits

- Manufactured with high quality SeaKem® and NuSieve™ Agarose for reliability
- Compatible with most minigel chambers
- Several versatile off the shelf formats with custom options available
- Most formats and sizes are available stained with GelGreen™ Ethidium Bromide free stain

Applications

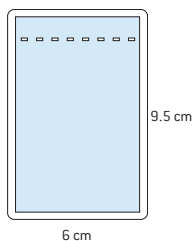
- DNA analysis
- Restriction digests
- Recovery
- PCR and RT-PCR
- Cloning and Blotting

Performance and Quality Tests

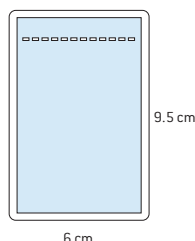
- DNase: no activity detected
- Gel performance: sharp bands and low background fluorescence

18°C to 26°C for 6–12 months depending upon agarose concentration

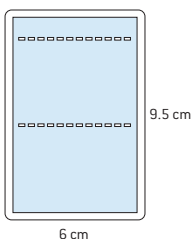
8-well



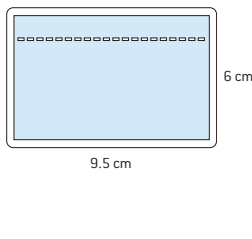
12-well



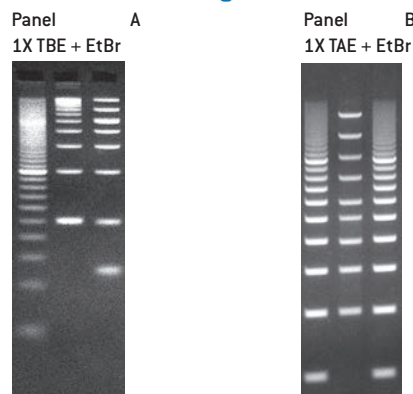
24-well



20-well



Performance of Reliant™ Minigels



Panel A. 20 bp Ladder (1 μ L), 100 bp Ladder (1 μ L) and 50–1000 bp marker (2.5 μ L) (all Lonza), loaded and run in a 4% NuSieve™ 3:1 Plus Reliant™ Gel containing ethidium bromide. Gel was run at 7 V/cm for 50 minutes using 1X TBE buffer containing 0.5 μ g/mL ethidium bromide.

Panel B. A repeating pattern of 500 bp DNA ladder (1 μ L/lane) and 1–10 kb DNA marker (2.5 μ L/lane) (Lonza) run in a 1% SeaKem® Gold Reliant™ Gel containing ethidium bromide. Gel was run at 5 V/cm for 60 minutes using 1X TAE buffer containing 0.5 μ g/mL ethidium bromide.

Specifications

Gels per box:	20
Gel dimensions:	6.0 cm × 9.5 cm
Gel thickness:	5.5 mm
Tray dimensions:	6.8 cm × 10.2 cm
Well volume:	<15 μ L




Reliant™ Minigels

Continued

Ordering Information – SimplyLoad™ Ladders

Cat. No. NA	Cat. No. EU	Product Name	Product Description	Range	Agarose	Size
8-well						
54801	54801	Reliant™ Minigel TAE	No stain	bp 400 ≥ 10,000	1% SeaKem® Gold Plus Agarose	8-well (20 gels/box)
54803	54803	Reliant™ Minigel TAE	With ethidium bromide (0.5 µg/mL)	bp 400 ≥ 10,000	1% SeaKem® Gold Plus Agarose	8-well (20 gels/box)
54903	54903	Reliant™ Minigel TBE	With ethidium bromide (0.5 µg/mL)	bp 300 ≥ 8,000	1% SeaKem® Gold Plus Agarose	8-well (20 gels/box)
54925	54925	Reliant™ Minigel TAE	With ethidium bromide (0.5 µg/mL)	bp 20 ≥ 1,000	4% NuSieve™ 3:1 Plus Agarose	8-well (20 gels/box)
54927	54927	Reliant™ Minigel TBE	With ethidium bromide (0.5 µg/mL)	bp 8 ≥ 1,000	4% NuSieve™ 3:1 Plus Agarose	8-well (20 gels/box)
12-well						
54820	54820	Reliant™ Minigel TBE	With ethidium bromide (0.5 µg/mL)	bp 300 ≥ 8,000	1% SeaKem® Gold Plus Agarose	12-well (20 gels/box)
54821	54821	Reliant™ Minigel TAE	With ethidium bromide (0.5 µg/mL)	bp 400 ≥ 10,000	1% SeaKem® Gold Plus Agarose	12-well (20 gels/box)
54823	54823	Reliant™ Minigel TBE	With ethidium bromide (0.5 µg/mL)	bp 8 ≥ 1,000	4% NuSieve™ 3:1 Plus Agarose	12-well (20 gels/box)
54825	54825	Reliant™ Minigel TBE	With ethidium bromide (0.5 µg/mL)	bp 100 ≥ 3,000	2% SeaKem® Gold Plus Agarose	12-well (20 gels/box)
20-well						
54907	54907	Reliant™ Minigel TBE	With ethidium bromide (0.5 µg/mL)	bp 300 ≥ 8,000	1% SeaKem® Gold Plus Agarose	20-well (20 gels/box)
54928	54928	Reliant™ Minigel TBE	With ethidium bromide (0.5 µg/mL)	bp 8 ≥ 1,000	4% NuSieve™ 3:1 Plus Agarose	20-well (20 gels/box)
54938	54938	Reliant™ Minigel TBE	No stain	bp 100 ≥ 3,000	2% SeaKem® Gold Plus Agarose	20-well (20 gels/box)
54939	54939	Reliant™ Minigel TBE	With ethidium bromide (0.5 µg/mL)	bp 100 ≥ 3,000	2% SeaKem® Gold Plus Agarose	20-well (20 gels/box)
54944	54944	Reliant™ Minigel TBE	No stain	bp 8 ≥ 1,000	4% NuSieve™ 3:1 Plus Agarose	20-well (20 gels/box)
24-well						
54813	54813	Reliant™ Minigel TBE	With ethidium bromide (0.5 µg/mL)	bp 100 ≥ 3,000	2% SeaKem® Gold Plus Agarose	24-well (20 gels/box)
54905	54905	Reliant™ Minigel TBE	With ethidium bromide (0.5 µg/mL)	bp 300 ≥ 8,000	1% SeaKem® Gold Plus Agarose	24-well (20 gels/box)
54929	54929	Reliant™ Minigel TBE	With ethidium bromide (0.5 µg/mL)	bp 8 ≥ 1,000	4% NuSieve™ 3:1 Plus Agarose	24-well (20 gels/box)

 Contact Scientific Support to inquire about custom precast gels.

Ordering Information – Supporting Products

Cat. No. NA	Cat. No. EU	Product Name	Product Description	Size
54945	54945	Reliant™ Gel Reusable UV Transparent Tray	Landscape	each
54946	54946	Reliant™ Gel Reusable UV Transparent Tray	Portrait	each
50655	50655	DNA Loading Buffer (6X)	Ficoll® based with bromophenol blue and xylene cyanol	5 × 1 mL
50836	50836	AccuGENE™ 5X TBE Buffer	0.45 M Tris-borate, 0.01 M EDTA (disodium salt), pH 8.3	20 L
51216	BE51216	AccuGENE™ 50X TAE Buffer	2.0 M Tris-acetate, 0.05 M EDTA, pH 8.3	1 L
50843	BE50843	AccuGENE™ 10X TBE Buffer	0.89 M Tris-borate, 0.02 M EDTA (disodium salt), pH 8.3	1 L
50841	50841	AccuGENE™ 10X TAE Buffer	0.4 M Tris-acetate, 0.01 M EDTA (disodium salt), pH 8.0	4 L
50844	BE50844	AccuGENE™ 10X TAE Buffer	0.4 M Tris-acetate, 0.01 M EDTA (disodium salt), pH 8.0	1 L