

Latitude™ Precast Gels

Precast agarose midgels that save you time.

Introduction

Latitude™ Precast Agarose Midgels are manufactured from high quality, Lonza molecular biology grade SeaKem® and NuSieve™ Agarose. The gels fit most standard electrophoresis chambers and are stable at room temperature for 6-12 months depending upon formulation. For best results use the Latitude™ Midigel Chamber.

Read Before Following the Protocol

- **Caution: These gels may contain 0.5 µg/ml ethidium bromide, which is a powerful mutagen. Gloves, lab coat and safety glasses should be worn when opening pouches and handling gels and any solutions containing ethidium bromide. Refer to SDS for safety precautions. Decontamination of ethidium bromide is described in Sambrook et al., *Molecular Cloning, A Laboratory Manual* (1989), 6.16-6.17.**
- **Avoid skin and eye exposure to UV light.**
- **Do not drop Latitude™ Gels as they can crack at the wells.**
- **For best band resolution, add 0.5 µg/ml ethidium bromide to the running buffer.**
- **Latitude™ Precast Agarose Midgels are designed to be run in the tray using the TruBand™ Anchor for convenience, speed and optimal results.**

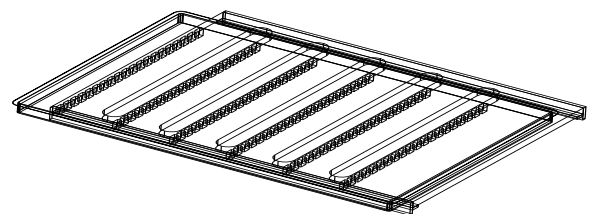
Protocol

1. Cut open the gel pouch on one end and remove the gel. **Exercise caution when removing the gel as the pouch contains a small amount of liquid that may contain ethidium bromide.**
2. **Leave the gel in the tray** and place directly on the chamber platform.
3. Cover the gel with the appropriate buffer (1X TAE or 1X TBE) to a **depth of 2 mm-3 mm** over the gel.
4. Place the appropriate size TruBand™ Gel Anchor over the tray so that the white gaskets fit snugly on the flanges on the sides of the tray. Position the anchor so that the top and middle tiers of wells are exposed. See diagram right.

5. Add buffer until the level is even with the top of the anchor. **Very Important! Do not flood buffer over the top of the anchor.** It is better to have the buffer level slightly below the top of the anchor than even with the top of the anchor.
6. Load DNA samples (10 µl-12 µl per well for optimal resolution) following standard procedures. The midgels are configured for alternate-well loading using 8 or 12 well multichannel pipettes.
7. Shift the TruBand™ Anchor so that it is centered over the gel and all wells are completely covered before beginning electrophoresis. See diagram below.
8. Electrophorese the gel at 5–10 V/cm interelectrode distance.
9. Remove the anchor, and remove the gel from the chamber. Carefully remove the gel from the tray, place on the light box and photograph as usual. The tray is not UV transparent and gels must be removed from the tray for imaging with a UV transilluminator. If smaller DNA fragments are not detected, briefly stain the gel (10 to 15 minutes) in 0.5 µg/ml ethidium bromide.

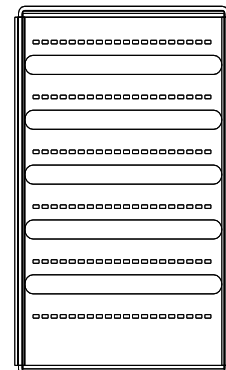
LOAD

With TruBand™ Anchor



RUN

With TruBand™ Anchor



Ordering Information

Gel Size: 10 x 15 cm 8 midigels per box

Catalog No.	Agarose Concentration	Buffer	DNA Size Range
1 x 20 well 1X TAE buffer + ethidium bromide			
57200		1X TAE	400 bp≥10 kb
57201			100 bp≥3 kb
57202	3.6% NuSieve®Hi-Res		20 bp≥1 kb

2 x 20 well 1X TAE buffer + ethidium bromide			
57210	1% SeaKem® LE Plus	1X TAE	400 bp≥10 kb
57211	2% SeaKem® LE Plus		100 bp≥3 kb
57212	3.6% NuSieve™ Hi-Res		20 bp≥1 kb

6 x 18 well 1X TAE buffer + ethidium bromide			
57263	1% SeaKem® LE Plus	1X TAE	400 bp≥10 kb
57265	2% SeaKem® LE Plus		100 bp≥3 kb
57267	3.6% NuSieve™ Hi-Res		

1 x 20 well 1X TBE buffer + ethidium bromide			
57220	1% SeaKem® LE Plus	1X TBE	300 bp≥8 kb
57221	2% SeaKem® LE Plus		100 bp≥2 kb
57222	4% NuSieve™ 3:1 Plus		8 bp≥1 kb

2 x 20 well 1X TBE buffer + ethidium bromide			
57230	1% SeaKem® LE Plus	1X TBE	300 bp≥8 kb
57231	2% SeaKem® LE Plus		100 bp≥2 kb
57232	4% NuSieve™ 3:1 Plus		8 bp≥1 kb

6 x 18 well 1X TAE buffer + ethidium bromide			
57264	1% SeaKem® LE Plus	1X TBE	300 bp≥8 kb
57266	2% SeaKem® LE Plus		100 bp≥2 kb
57268	4% NuSieve™ 3:1 Plus		8 bp≥1 kb

Latitude™ Midigels Gel size: 10 x 15 cm gels

With 1X MOPS buffer for RNA analysis

Catalog No.	Gel Type	Description
57238	1.25% SeaKem® Gold for RNA	1 x 20 well
57237	1.25% SeaKem® Gold for RNA	2 x 20 well

Related Products

AccuGENE™ TAE, TBE and MOPS Buffer
DNA Markers
DNA Ladders
RNA Marker
Latitude™ Midigel Chamber

For more information contact Scientific Support at (800) 521-0390 or visit our website at www.Lonza.com

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