Genetika Science

SurePAGE Pre-cast Gel

Faster & Convenient Than Homemade Acrylamide

SDS-PAGE is an electrophoresis method that allows protein separation by mass. The medium (also referred to as 'matrix') is a polyacrylamide-based discontinuous gel. The polyacrylamide-gel is typically sandwiched between two glass plates in as lab gel. Making polyacrylamide-gel can be very daunting and laborious.

Genetika Science offers SurePAGE from GenScript as alternative SurePAGE is precast gel format and here's the comparison between SurePAGE and plyacrylamide-gel

Ready to Use , Save Times and Long Shelf Life

- **Ready to Use SDS-PAGE Gels** - The convenience and time saved by not having to mix and pour a gel, and wait for it to set. While Homemade gel need an hour or more to cast.
- **Short Separation Times** - as **20min with MES running buffer, 30 min with MOPS running buffer**, Homemade Acrylamide needs 45 min to several hours.
- **Long Shelf Life** - Up to **18 months** if stored at 2-8°, homemade gels can last only about several days.

More Safe

- **No TEMED and No APS used in this gel.**
- **Not having to handle acrylamide**, meanwhile scientists have to handle toxic gel reagents such as acrylamide, TEMED, and APS when casting Homemade Acrylamide.

No Protein Modification

SurePAGE gels are cast in a neutral pH buffer that minimizes polyacrylamide hydrolysis, increases gel stability and minimizes protein modification. In the Bis-Tris gel system, the gel buffer pH is at 6.4, this slightly acidic gel pH helps preserve protein integrity and extend the shelf life of the gel. In addition, the operating pH of Bis-Tris gel during gel electrophoresis is at 7.3, which reduces protein modification and degradation.

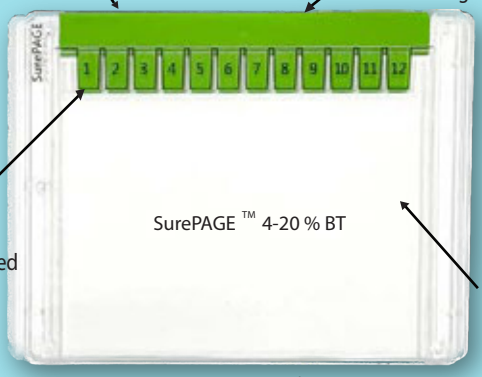
Meanwhile, traditional Tris-Glycine gel system (also called the Laemmli system), is using alkaline pH buffer that cause acrylamide hydrolysis and shortened gel shelf life. During gel electrophoresis, the operating pH increases to about 9.5, which may cause protein modification and degradation.

GenScript
Make Research Easy

SurePAGE Feature

Compatible cassette design Fits all popular mini-gel tanks

Easy to use Wider well opening allows sample loading with regular pipette tips

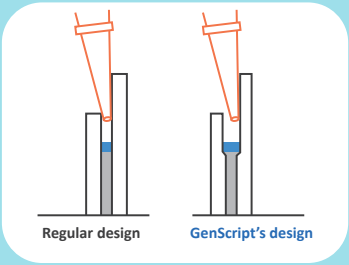


Outlined and numbered wells Each well is outlined and numberedfor easier sample identification

Convenient gradient gels Ready to use gradient and homogeneous gels with wide range concentrations.

*10cm x 8 cm gels

Large Loading Volume

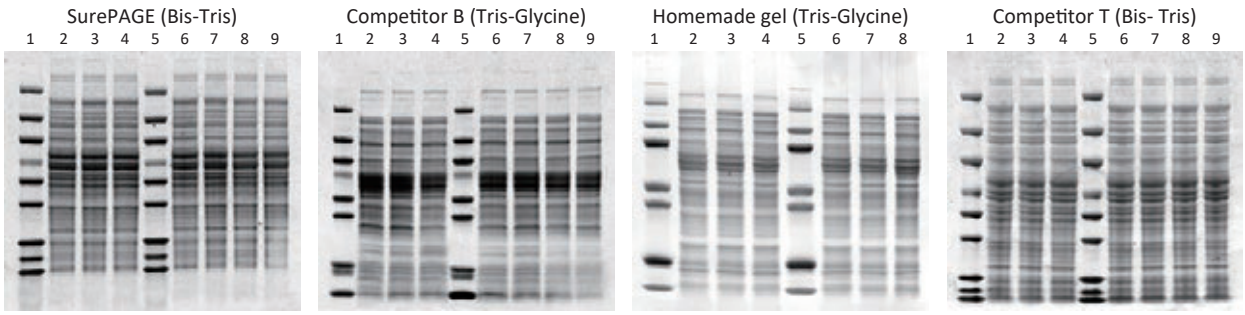


- Up to **80 µl per Well** compared to 25 µl.
- Wider well opening allows sample **loading with regular pipette tips** meanwhile, Homemade Acrylamide needs extended pipette tips.

Compatible Gel Tanks

- Bio-Rad Mini-PROTEAN® II & 3
- Bio-Rad Mini-PROTEAN®Tetra System
- Invitrogen Novex XCell I, II, & Surelock®
- LONZA PAGEr® Minigel Chamber
- Hoefer Mighty Small (SE 260/SE 250)
- Hoefer Tall Mighty Small (SE 280

Superior Resolution



SurePAGE gels offer superior band resoluon compared to competitors and the homemadeTris-Glycine gels. Lane 1 and 5: protein marker (MM1397), 5 µl. Lane 2,3,6,7,8 and 9: *E. coli* cell lysate.

Precast gels are more uniform in their composition they offer

Improved Consistency and Reproducibility in The Final Data

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