

## mPAGE® Lux Gel Casting System

Your frequently asked questions answered by our team of experts.

Gels in less than three minutes is a thing. Really. With our mPAGE® Lux Gel Casting System, you can say farewell to conventional methods and their time consuming, manual steps for gel creation. We have compiled a list of answers to popular questions for the mPAGE® Lux Gel Casting System. To learn more about the system, please visit [SigmaAldrich.com/mPAGELux](https://SigmaAldrich.com/mPAGELux)

### What are the benefits of the mPAGE® Lux Gel Casting System?

Our mPAGE® Lux Gel Casting System makes mini gels in under 3 minutes compared to conventional methods, which take more than 90 minutes. The workflow is simpler and safer as solutions are premade and do not require APS or TEMED. The gels made with the mPAGE® Lux Gel Casting System are consistent and reproducible. mPAGE® Lux gels are made using Bis-Tris gel chemistry which the dedicated mPAGE® Lux Reagents use and allow for shorter run times. Additionally, these gels share the same running buffers and gel stains with mPAGE® TurboMix and mPAGE® precast gels.

### Do I need to optimize my gel curing conditions?

No, simply select the gel thickness and the mPAGE® Lux Curing Station will automatically cure your gel.

### How long is the lifetime of the UV lamp?

The UV lamp has a lifetime of 5 years, based on an average usage of 252 gels per year.

### What gel chemistries are available for use with the mPAGE® Lux Gel Casting System?

Only Bis-Tris chemistry is available in our mPAGE® Lux Gel Casting System. Bis-Tris chemistry offers several benefits, such as shorter runtimes and increased gel stability. As the mPAGE® TurboMix and mPAGE® precast gels are also using the same chemistry, you can share the same gel stains and running buffers.

### What is the electrophoresis run time for mPAGE® Lux gels?

Run time depends on the tank, voltage, gel thickness and running buffer. A typical runtime is about 40 minutes.

### What is the molecular weight separation range?

Separation range is 10-500 kDa depending on the gel percentage.

### Which staining methods can be used with gels casted using the mPAGE® Lux Gel Casting System?

Proteins can be visualized using any Bis-Tris compatible gel staining method. Please refer to the manufacturer's guidelines for specific gel stains. Bis-Tris compatible gel stains include:

- ReadyBlue™ Protein Gel Stain
- EZFluor™ 1-step Fluorescent Protein Gel Stain\*
- EZFluor™ UV 1-step Fluorescent Protein Gel Stain
- SYPRO® Ruby Protein Gel Stain\*
- Traditional Coomassie brilliant blue staining\*
- Traditional silver nitrate staining\*

\*Note: Fixation of the gel is required before staining.

### How long can mPAGE® Lux Bis-Tris gels be stored after curing?

mPAGE® Lux Bis-Tris gels can be stored for up to 2 weeks. Gels should be wrapped in DI water-soaked paper towels and stored in an airtight container at 2-8 °C lying flat.



### How do I make multiple gels with the mPAGE® Lux Casting System?

The mPAGE® Lux Casting System comes with 2 sets of mPAGE® Casters. While the mPAGE® Lux Curing Station is curing the first gel, the second caster can be assembled. Once the first gel is cured, the casting process can be repeated using the second caster. The same process can be repeated for the number of gels you need to make.

### Are gels prepared with the mPAGE® Lux Gel Casting System compatible with other electrophoresis tanks?

Yes, the gels prepared with the mPAGE® Gel Caster are compatible with the mPAGE® Mini Gel Tank and Bio-Rad® Mini-PROTEAN® Cells.

### Is the mPAGE® Lux Curing Station compatible with other gel reagents?

No, the mPAGE® Lux Curing Station is compatible with only mPAGE® Lux reagents.

### Is the mPAGE® Lux Curing Station compatible with other gel casters?

No, the mPAGE® Lux Curing Station is compatible with only mPAGE® Casters. The mPAGE® Lux Casting System includes 2 gel casters.

### Is the mPAGE® Lux Curing Station compatible with other glass spacers and short plates?

No, the mPAGE® Lux Curing Station is only compatible with mPAGE® Lux short plates, mPAGE® spacer plates, and mPAGE® combs. The mPAGE® Lux Casting System includes short plates, spacer plates, and combs in the thickness of your choice.

### How big is the mPAGE® Lux Casting System?

The mPAGE® Curing Station is designed to easily fit on your benchtop. The curing station is 41.275 cm x 29.21 cm x 32.385 cm, or about the size of a toaster. There are two mPAGE® Casters and additional consumables included in the mPAGE® Lux Casting System.

## Kit Descriptions and Configurations

| Kit Description                     | Items/Quantities                            | Included Part No. | Kit Catalog No. |
|-------------------------------------|---------------------------------------------|-------------------|-----------------|
| mPAGE® Lux Casting System, 1 mm*    | mPAGE® Lux Curing Station (1)               | LUXGCS            | LUXCSYS-1M      |
|                                     | mPAGE® Lux Mixing Tube (5)                  | LUXMIXTB          |                 |
|                                     | mPAGE® Gel Caster (2)                       | GCR2              |                 |
|                                     | mPAGE® Comb 1.0 mm, 10 wells (5)            | C1M10W            |                 |
|                                     | mPAGE® Comb 1.0 mm, 15 wells (5)            | C1M15W            |                 |
|                                     | mPAGE® Spacer plate 1.0 mm (5)              | MSPA10            |                 |
|                                     | mPAGE® Lux Masked Short Plates 10-combs (5) | LUXSHRTP10W       |                 |
|                                     | mPAGE® Lux Masked Short Plates 15-combs (5) | LUXSHRTP15W       |                 |
| mPAGE® Lux Casting System, 0.75 mm* | mPAGE® Lux Curing Station (1)               | LUXGCS            | LUXCSYS-75M     |
|                                     | mPAGE® Lux Mixing Tube (5)                  | LUXMIXTB          |                 |
|                                     | mPAGE® Gel Caster (2)                       | GCR2              |                 |
|                                     | mPAGE® Comb 0.75 mm, 10 wells (5)           | C75M10W           |                 |
|                                     | mPAGE® Spacer plate 0.75 mm (5)             | MSPA75            |                 |
|                                     | mPAGE® Lux Masked Short Plates 10-combs (5) | LUXSHRTP10W       |                 |
| mPAGE® Lux Casting System, 1.5 mm*  | mPAGE® Lux Curing Station (1)               | LUXGCS            | LUXCSYS-15M     |
|                                     | mPAGE® Lux Mixing Tube (5)                  | LUXMIXTB          |                 |
|                                     | mPAGE® Gel Caster (2)                       | GCR2              |                 |
|                                     | mPAGE® Comb 1.5 mm, 10 wells (5)            | C15M10W           |                 |
|                                     | mPAGE® Comb 1.5 mm, 15 wells (5)            | C15M15W           |                 |
|                                     | mPAGE® Spacer plate 1.5 mm (5)              | MSPA15            |                 |
|                                     | mPAGE® Lux Masked Short Plates 10-combs (5) | LUXSHRTP10W       |                 |
|                                     | mPAGE® Lux Masked Short Plates 15-combs (5) | LUXSHRTP15W       |                 |

\*Available with NEMA 5-15P (YP12), CEE 7/7 (YP22), type G (YP61), YP18 or Type I (YP03) plug.

For additional information and ordering, please visit

[SigmaAldrich.com/mPAGELux](https://SigmaAldrich.com/mPAGELux)



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