

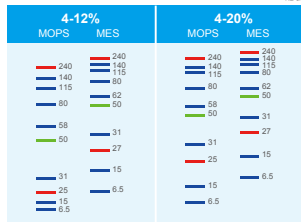
YoungPAGE™ Gels

# Guide for using YoungPAGE™ Gels



**1. Choose the appropriate gel for your protein electrophoresis based on the migration pattern below using MOPS/MES buffer.**

Wells	Max. Vol/well
11	30 $\mu$ l
15	20 $\mu$ l



**2. Sample preparation**

Heat the sample at 70°C for 10 min, spin down the sample before loading.

We recommend using 4×LDS sample buffer (Cat. No. M00676).

Reagent	Reduced Sample	Non-reduced Sample
Sample	x $\mu$ l	x $\mu$ l
4X LDS Sample Buffer	2.5 $\mu$ l	2.5 $\mu$ l
Reducing Agent 10x (500mM DTT or 25% $\beta$ -ME)	1 $\mu$ l	-
Deionized Water	Up to 6.5 $\mu$ l	Up to 7.5 $\mu$ l
Total Volume	10 $\mu$ l	10 $\mu$ l

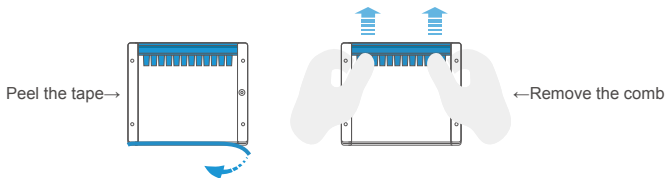
**3. Prepare the gel tank. Using MOPS (Cat. No. M00138) or MES buffer (Cat. No. M00677) as the running buffer.**

★ Compatible gel tanks:

- GenBox™ Mini Electrophoresis tank (Cat. No. M00780)
- Bio-Rad Mini-Protean (II/3/Tetra System)
- Hoefer Might Small (SE 250/ SE 260)
- Invitrogen Novex XCell I, II, & Surelock

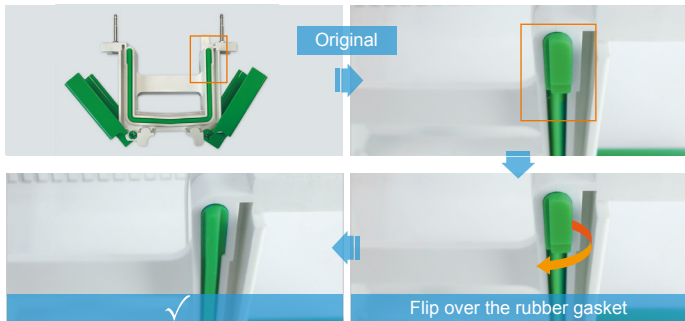
\*see manual or website for complete list

4. Peel the tape at the bottom of the gel plate, remove the comb gently, then insert the gel into the gel running apparatus and add running buffer.



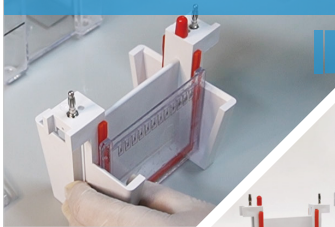
**For Bio-Rad Mini-PROTEAN (II/3/Tetra):**

When using Bio-Rad's gel tank, flip the gasket over so that the gel plate fits properly.

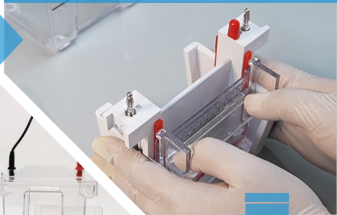


## For GenBox™ Mini Electrophoresis tank (Cat. No. L00780)

Place the gel into the GenBox™ mini running core (with the short plate facing inward).



Insert the GenBox™ wedges into the running core. The hook structure on the top of the wedges should face inward.



Insert the running core with gel cassettes into the buffer chamber.

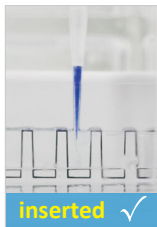
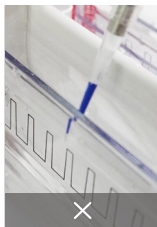
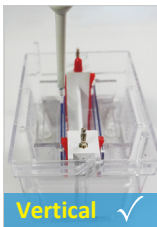
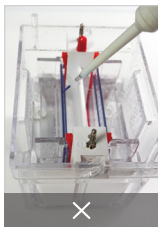
If only using 1 gel then place a buffer dam on the opposite side.



## 5. Sample loading

You can use 10  $\mu$ l pipette tip to load samples into the wells easily.

Make sure that the loading tip is inserted into the sample well vertically for optimal result and to avoid inserting the tip into the groove on the back plate.



## 6. Running conditions

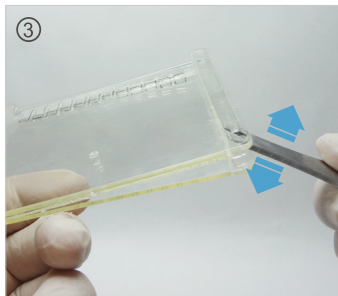
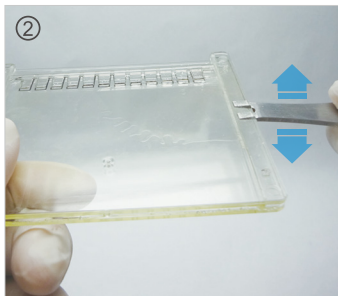
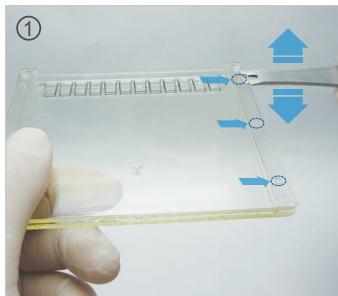
Concentration	MOPS (200V)	MES (180V)
4-20%	~ 35 min	~ 40 min
4-12%	~ 32 min	~ 26 min

The running time may vary depending on your power supply and the gel percentage.

## 7. Open the cassette with an opener or a screw driver to remove the gel.

Stain your gel with GenScript's eStain L1 automatic Protein Staining System (L00657) and get high quality result in 10 minutes!

Transfer your gel to the membrane with GenScript's eBlot™ Protein Transfer System and get high quality result in 10 minutes!



For more support please call  
local office number or in the  
U.S., call 1-877-436-7274  
(1-732-885-9188), also you can  
visit [www.genscript.com](http://www.genscript.com)  
E-mail: [product@genscript.com](mailto:product@genscript.com)

Open the cassette with GenScript's opener or a screw driver.