Technical Bulletin ZmTech Scientifique: Innovation and Development of Laboratory Accessories and Bio-Technologies

M-Fast SDS-PAGE Gel Solutions (WF):

Use for science research only. Not for Therapeutic or Diagnostic Use.

(Catalog #: WF-150 (15%); WF-100(10%); WF-075(7.5%))

Size: Gel solution-A (250mL) Gel solution-B (250mL) Storage: 2-8°C.

- **Solution-A & B contain Acrylamide-Bis, SDS, Tris-HCl, TEMED and Stabilizers,** used to cast your own polyacrylamide gels. (Note*: **Not includes the fresh 10%APS**)

* Protocol for preparing a mini-SDS-PAGE gel (8x10cm):

A mini SDS-PAGE gel (8x10)	Resolver	Stacker
Solution- A	4mL	0.5mL
Solution- B	4mL	1.5mL
Total Volume	8mL	2mL
10% APS	50uL	20uL

1. Set the casting frames (clamp two glass plates in the casting frames) on the casting stands. **Note*: Pre-warm the gel solution-A and -B at room temperature for 10-20 minutes prior to use.**
2. **Prepare 10% APS (fresh) before casting gels. Dissolve 0.2 g of APS in 2 mL of deionized water.**
3. **Prepare the resolving gel solution by mixing 4mL gel solution-A and 4mL solution-B.**
4. Add **50uL 10% fresh APS** to the combined resolving gel solution and mix well.
5. Pipet the gel solution into the gap between the glass plates. Fill the cassette to 0.5–1 cm below the bottom of the teeth on the comb. ****Immediately prepare and pour the stacking solution. It is not necessary to overlay water/butanol/isopropanol on the top of the resolving gel.**
6. **Prepare the stacking gel solution by mixing 500uL solution-A and 1.5mL solution-B.**
7. Add **20uL 10% fresh APS** to the combined stacking gel solution and mix well.
8. Pipet the stacking gel solution into the cassette and filling to the top of the short plates. Insert the comb without trapping air under the teeth.
9. Wait for 20-30 minutes and the gel is ready to use for protein electrophoresis.

Related products:	Size:	Cat. No.	Price	Recipe:
10x Tris-Glycine SDS running buffer	500mL	P-3500	$19	25mM Tris, PH8.3, 192mM glycine, 0.1%SDS
2x Tris-Glycine SDS Sample buffer	50mL	PS-50	$19	100mM Tris-HCl, PH6.8, 40%glycerol, 2%SDS, 0.01%Bromophenol blue (add 2-mercaptoethanol before use)
10x Sharper Protein running buffer	500mL	B5020	$55	**Used for small** Proteins (<100KDa)/peptide electrophoreses
APS (power)	50g	APS-50	$19	**10%APS**= 0.2 g of APS in 2 mLof deionized water

Additional informations:

Acrylamide (%)	M.W. Range	Thickness of the gel	Volumes of the gel solution
7.5%	50 kDa - 500 kDa	0.75mm	6.0 mL
10%	20 kDa - 300 kDa	1.0 mm	10 mL
15%	3 kDa - 100 kDa	1.5 mm	12 mL