

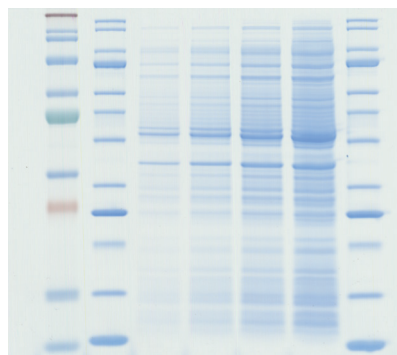
REV UP YOUR GEL GAME

TurboMix™ Bis-Tris Acrylamide Gel Casting Solutions

Faster gel casting. Outstanding resolution. Reduced run times.

TurboMix™ Gel Casting Benefits

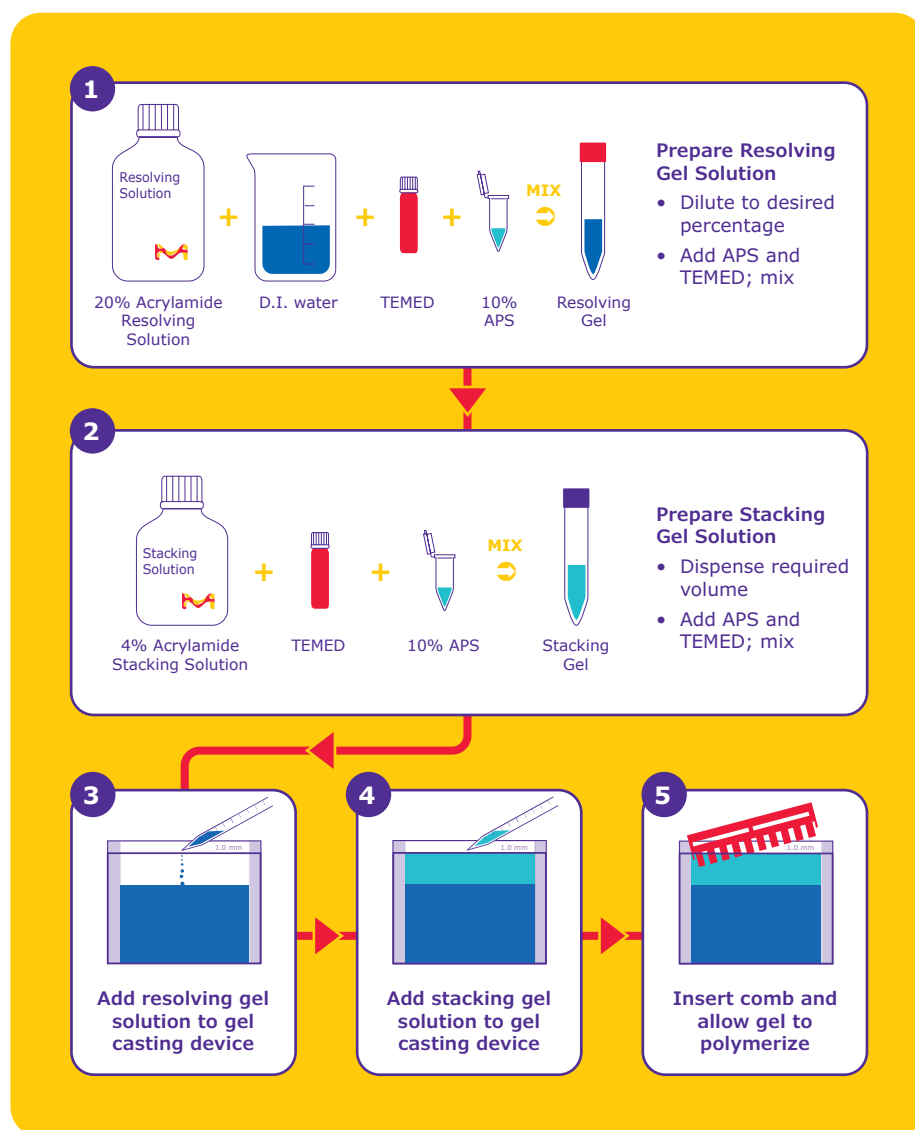
- **Save time:** premixed and ready-to-pour acrylamide buffer solutions reduce hands-on prep time
- **Rapid gel pouring protocol:** Quick Cast protocol allows simultaneous polymerization of resolving and stacking gels
- **Improved resolution:** neutral pH running conditions result in reduced protein modification and sharper bands, compared to standard Tris-glycine gels
- **Flexibility:** easily dilute to any required percentage acrylamide gel between 8% and 15%, to separate proteins 6 kDa–400 kDa in size
- **Faster runs:** electrophoresis in as little as 20 minutes – less time than equivalent tris-glycine gels
- **Longer cast gel shelf life:** 3–4 weeks, with proper storage – neutral pH improves stability compared to tris-glycine gels



12% TurboMix™ Bis-Tris hand-cast gel loaded with *E. coli* lysate titrations (lanes 3–6), mPAGE® unstained protein standard (lanes 2 and 7), and mPAGE® color protein standard (lane 1). Gel was run with MOPS buffer for 35 min at 200 V and stained with ReadyBlue™ Protein Gel Stain.

TurboMix™ Quick Cast Workflow

The TurboMix™ Quick Cast method offers a rapid, 5-step process for casting polyacrylamide gels.

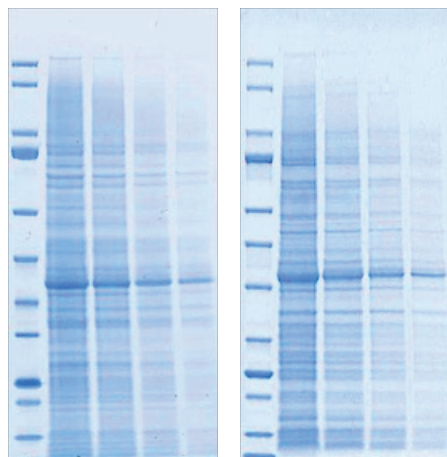


mPAGE® Bis-Tris Precast Gels

mPAGE® Bis-Tris Precast Gels provide the perfect complement to the TurboMix™ handcast gel system when gradient gels are required for optimal analysis of proteins of different molecular weights. mPAGE® gels use the same sample and running buffers as TurboMix™ gels, providing excellent resolution and compatibility with common mini gel tanks.

**Competitive Bis-Tris
Precast Gel**
50-minute run time

mPAGE® Precast Gel
35-minute run time



Protein separation using a mPAGE® Bis-Tris Precast Gel (4–12%) compared to a competitor precast Bis-Tris gel. Samples: mPAGE® unstained protein marker and serial dilution of *E. coli* extract. Gels were run with MOPS running buffer and stained with ReadyBlue™ Protein Gel Stain.

To learn more, please visit
SigmaAldrich.com/TurboMix

Ordering Information

Product Description	Quantity	Cat. No.
TurboMix™ Solutions		
TurboMix™ Bis-Tris Gel Casting Kit	~10 mini gels	TMKIT-10
TurboMix™ Bis-Tris Gel Casting Kit	~60 mini gels	TMKIT-60
TurboMix™ Resolving Solution	216 mL	TMRES-216ML
TurboMix™ Stacking Solution	120 mL	TMSTK-120ML
Reagents		
Ammonium persulfate (APS) for electrophoresis, ≥98%	25 g	A3678-25G
N,N,N',N'-Tetramethylethylenediamine (TEMED) <i>ReagentPlus</i> ®, 99%	5 mL	T22500-5ML
DL-Dithiothreitol solution, 1 M	10 mL	43816-10ML
2-Mercaptoethanol (BME)	25 mL	63689-25ML-F
Buffers		
mPAGE® 4X LDS Sample Buffer	10 mL	MPSB-10ML
mPAGE® 4X LDS Sample Buffer	250 mL	MPSB-250ML
mPAGE® MES SDS Running Buffer Powder (Each packet makes 1 L)	5 packets	MPMES
mPAGE® MOPS SDS Running Buffer Powder (Each packet makes 1 L)	5 packets	MPMOPS
mPAGE® Transfer Buffer Powder (Each packet makes 1 L)	10 packets	MPTRB
Protein Markers		
mPAGE® Color Protein Standard	500 µL	MPSTD4
mPAGE® Unstained Protein Standard	500 µL	MPSTD3
mPAGE® Western Protein Standard	250 µL	MPSTD2
Protein Gel Stains		
EZBlue™ Gel Staining Reagent	500 mL	G1041-500ML
ReadyBlue™ Protein Gel Stain	1 L	RSB-1L
EZFluor™ 1-step Fluorescent Protein Gel Stain	1 L	SCT145-1L
EZFluor™ UV 1-step Fluorescent Protein Gel Stain	1 L	SCT147-1L
ProteoSilver™ Silver Stain Kit	1 kit for 25 mini-gels	PROTSIL1-1KT
mPAGE® Bis-Tris Precast Gels		
4–12% mPAGE® Bis-Tris Gels, 10-well (80 µL/well)	10 gels	MP41G10
4–12% mPAGE® Bis-Tris Gels, 12-well (60 µL/well)	10 gels	MP41G12
4–12% mPAGE® Bis-Tris Gels, 15-well (40 µL/well)	10 gels	MP41G15
4–20% mPAGE® Bis-Tris Gels, 10-well (80 µL/well)	10 gels	MP42G10
4–20% mPAGE® Bis-Tris Gels, 12-well (60 µL/well)	10 gels	MP42G12
4–20% mPAGE® Bis-Tris Gels, 15-well (40 µL/well)	10 gels	MP42G15
8–16% mPAGE® Bis-Tris Gels, 10-well (80 µL/well)	10 gels	MP81G10
8–16% mPAGE® Bis-Tris Gels, 12-well (60 µL/well)	10 gels	MP81G12
8–16% mPAGE® Bis-Tris Gels, 15-well (40 µL/well)	10 gels	MP81G15
8% mPAGE® Bis-Tris Gels, 10-well (80 µL/well)	10 gels	MP8W10
8% mPAGE® Bis-Tris Gels, 12-well (60 µL/well)	10 gels	MP8W12
8% mPAGE® Bis-Tris Gels, 15-well (40 µL/well)	10 gels	MP8W15
10% mPAGE® Bis-Tris Gels, 10-well (80 µL/well)	10 gels	MP10W10
10% mPAGE® Bis-Tris Gels, 12-well (60 µL/well)	10 gels	MP10W12
10% mPAGE® Bis-Tris Gels, 15-well (40 µL/well)	10 gels	MP10W15
12% mPAGE® Bis-Tris Gels, 10-well (80 µL/well)	10 gels	MP12W10
12% mPAGE® Bis-Tris Gels, 12-well (60 µL/well)	10 gels	MP12W12
12% mPAGE® Bis-Tris Gels, 15-well (40 µL/well)	10 gels	MP12W15

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