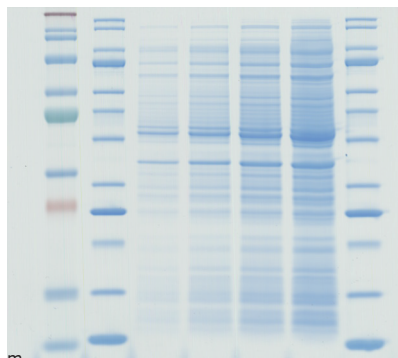


# SAVE ON PROTEIN ELECTROPHORESIS

## TurboMix™ Gel Casting Benefits

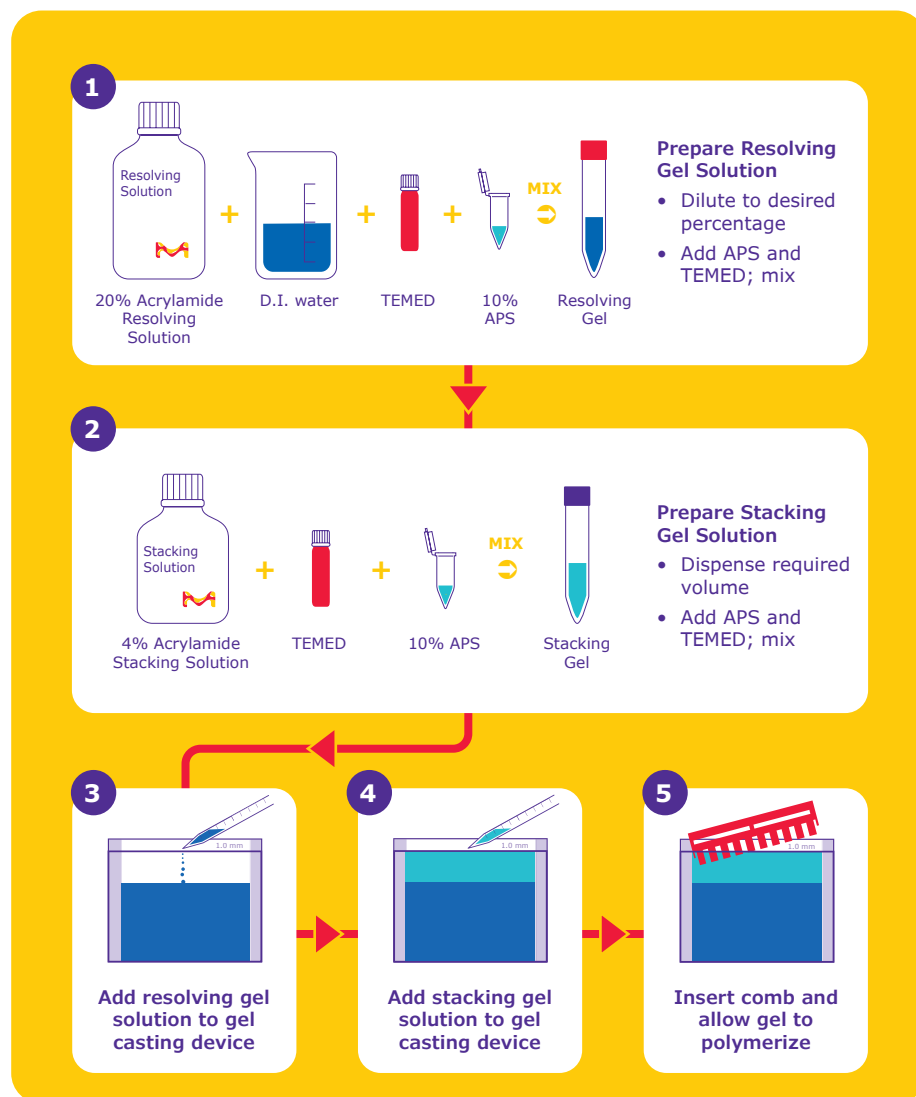
- **Save time:** premixed and ready-to-pour acrylamide buffer solutions reduce hands-on prep time
- **Rapid gel pouring protocol:** Quick Cast protocol allows simultaneous polymerization of resolving and stacking gels
- **Improved resolution:** neutral pH running conditions result in reduced protein 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 PAGE® 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.



## Formulations to make your own buffers

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.



Note: use either MOPS or MES running buffer. Do not use Tris-Glycine running buffer with TurboMix™ gels.

### 4X LDS Sample Buffer Cat. No. MPSB-10ML or MPSB-250ML

Reagent	Amount
Tris-HCl	0.666 g
Tris-Base	0.682 g
Lithium Dodecyl Sulfate (LDS)	0.800 g
EDTA	0.006 g
Glycerol	4 g
Coomassie Brilliant Blue	
G250 (1% solution)	0.75 mL
Phenol Red (1% solution)	0.25 mL
Deionized water	to 10 mL

### 1X mPAGE® MOPS SDS Running Buffer Cat. No. MPMOPS

Reagent	Amount
MOPS	10.46 g
Tris-Base	6.06 g
SDS	1.00 g
EDTA	0.30 g
Deionized water	to 1 L

### 1X mPAGE® MES SDS Running Buffer Cat. No. MPMES

Reagent	Amount
MES	9.76 g
Tris-base	6.06 g
SDS	1.00 g
EDTA	0.30 g
Deionized water	to 1 L



了解更多  
biochemical solutions

## Ordering Information

Product Description	Cat. No
<b>TurboMix™ Solutions</b>	
TurboMix™ Resolving Solution	TMRES-216ML
TurboMix™ Stacking Solution	TMSTK-120ML
TurboMix™ Bis-Tris Gel Casting Kit	TMKIT-10 TMKIT-60
<b>Reagents</b>	
Coomassie Brilliant Blue G, pure	B0770-5G B0770-25G
Phenol Red, ACS reagent	114529-5G 114529-25G
2-Mercaptoethanol, BioUltra, for molecular biology, ≥99.0% (GC)	63689-25ML-F
Ammonium persulfate, for molecular biology, suitable for electrophoresis, ≥98% (APS)	A3678-25G
N,N,N',N'-Tetramethylethylenediamine (TEMED) BioReagent, suitable for electrophoresis, ~99%	T9281-25mL
DL-Dithiothreitol solution (DTT), BioUltra, for molecular biology, ~1 M in H <sub>2</sub> O	43816-10ML
Ethylenediaminetetraacetic acid disodium salt dihydrate (EDTA disodium salt), suitable for electrophoresis, for molecular biology, 99.0-101.0% (titration)	E5134-50G E5134-100G E5134-250G E5134-500G
Glycerol, BioReagent, suitable for cell culture, suitable for insect cell culture, suitable for electrophoresis, ≥99% (GC)	G2025-100ML G2025-500ML
Lithium dodecyl sulfate, BioReagent, for molecular biology, suitable for electrophoresis	L9781-50G
MES, low moisture content, ≥99% (titration)	M3671-50G M3671-250G M3671-1KG
MOPS, ≥99.5% (titration)	M1254-100G M1254-250G M1254-1KG
Sodium dodecyl sulfate, BioReagent, suitable for electrophoresis, for molecular biology, ≥98.5% (GC)	L3771-100G
Trizma® base (Tris base), Primary Standard and Buffer, ≥99.9% (titration), crystalline	T1503-100G T1503-250G T1503-500G T1503-1KG T3253-100G T3253-250G T3253-500G T3253-1KG
<b>Premixed Buffers</b>	
mPage® 4X LDS Sample Buffer	MPSB-10ML MPSB-250ML
mPAGE® MOPS and MES SDS running buffer powder, 5 x 1L	MPMOPS MPMES

