Quick Start Guide

mPAGE® TurboMix

Bis-Tris Gel Casting Kit

TMKIT-10
TMKIT-60

5 Easy Steps to Cast

The mPAGE® TurboMix Bis-Tris Gel Casting Kit uses a quick cast method which can be used to prepare protein separation gels for SDS-PAGE. The volumes provided in this protocol are for casting a single 7.4 x 8.2 cm mini gel, for different gel sizes solution volumes must be determined by the user.

For additional gel sizes and traditional casting instructions, read the complete User Guide on the mPAGE® TurboMix Bis-tris Gel Casting Kit product page at SigmaAldrich.com.

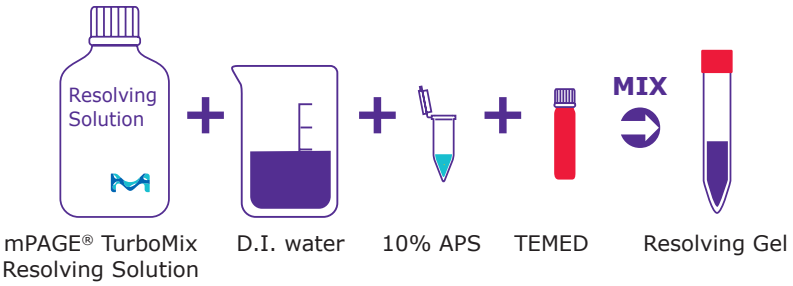
Read the complete user guide before first use.

Bring reagents to room temperature prior to use. Important: Bis-Tris gels are only compatible with MOPS-SDS and MES-SDS running buffer. Do NOT use Tris-Glycine running buffer.

1. Prepare Resolving Gel

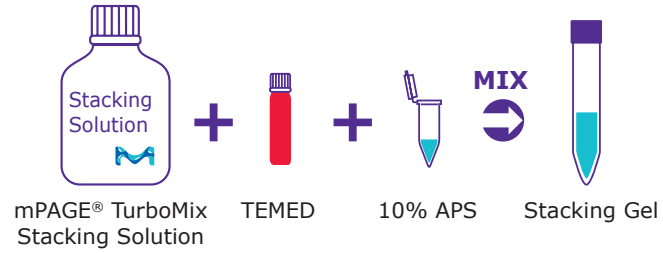
Use the table below to determine solution volumes. Gently mix all reagents in a clean 15 mL conical tube.

Note: Gel will begin to polymerize after addition of APS and TEMED.



2. Prepare Stacking Gel

Gently mix all reagents in a clean 15 mL conical tube.



Volumes required to cast one 7.4 x 8.2 cm mini gel using the mPAGE® Gel Caster:

- **For 0.75 mm gels, multiply volumes in table by 0.75.**
- **For 1.50 mm gels, multiply volumes in table by 1.5.**

Resolving Gel

Mini Gel Thickness 1 mm

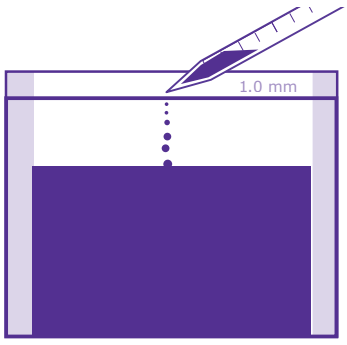
Gel percentage	8%	10%	12%	15%
mPage® TurboMix Resolving Solution	2.4 mL	3 mL	3.6 mL	4.5 mL
D.I. water	3.6 mL	3 mL	2.4 mL	1.5 mL
10% APS	30 µL	30 µL	30 µL	30 µL
TEMED	3 µL	3 µL	3 µL	3 µL
Total	6 mL	6 mL	6 mL	6 mL

Stacking Gel

Mini Gel Thickness 1 mm

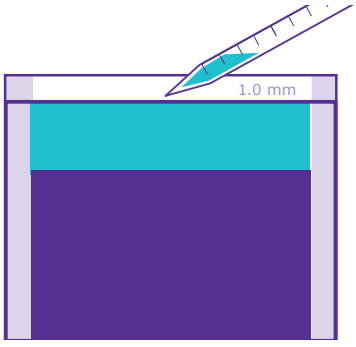
Gel percentage	4%
mPage® TurboMix Stacking Solution	2 mL
D.I. water	--
10% APS	20 µL
TEMED	2 µL
Total	2 mL

3. Add Resolving Gel



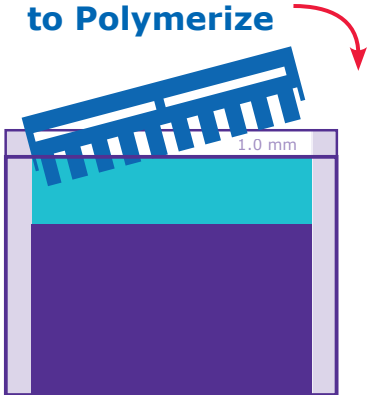
Using a serological pipette, fill casting cassette with resolving gel to desired height.

4. Add Stacking Gel



Using a serological pipette, slowly add stacking gel solution until reaching top of the shorter glass plate.

5. Allow to Polymerize



Insert comb and allow gel to polymerize, 1 hour.

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