

## T-Pro Gradient Gel Solution kit (4-12%)



Store at  
RT

(JB02-B110M) 250 ml + 100 ml

**This product is for laboratory research ONLY and not for diagnostic use.**

<b>Product Overview</b>	T-Pro Gradient Gel Solution kit is "ready-to-run" SDS polyacrylamide solutions polymerize into an advanced molecular sieve for the electrophoretic separation of proteins. Because of the advanced buffer chemistry used in the gel matrix solution, T-Pro Gradient Gel Solution kit allow a single separating gel. No stacking gel is required, as the T-Pro EZ Gel Solution proprietary formulation inherently stacks the protein samples during the normal electrophoresis run. Band resolution is unparalleled over a molecular range of 10 to 250 kDa. The new hybrid formulation of T-Pro Gradient Gel Solution kit gives these gels an increased gel strength, which allows for easier handling. T-Pro Gradient Gel Solution kit will work with all types of universal electrophoresis apparatus. Our gel mixtures are formulated for optimal performance in mass spectrometry-based proteomics experiments.
<b>Features</b>	<ul style="list-style-type: none"><li>● High gel strength - allows easier handling.</li><li>● Ready to use in less than 15 minutes - just add TEMED and APS to polymerize the gel.</li><li>● No stacking gel required - permits longer gel separations</li><li>● High resolution gels for protein separation across a broad molecular weight range.</li></ul>
<b>Research Applications</b>	SDS-PAGE separation of proteins Biomarker separation Recombinant protein purity analysis
<b>Procotol</b>	<b>For 8 x 10 mini Gel</b> <b>Resolving Gel:</b> 6mL of T-Pro Gradient Gel Solution A 1) Add 6 $\mu$ L TEMED and 60 $\mu$ L 10% APS gently mix solution for even distribution. 2) Pour the gel solution into gel cartridge to the top of the short plate. Allow to sit for approximately 15 minutes. <b>Stacking Gel:</b> 2mL of T-Pro Gradient Gel Solution B 1) Add 3 $\mu$ L TEMED and 20 $\mu$ L 10% APS gently mix solution for even distribution. 2) Pour the gel solution into gel cartridge to the top of the short plate. Add the comb. 3) Allow to sit for approximately 15 minutes.
<b>Storage</b>	T-Pro Gradient Gel Solution kit is stable for RT

**\*For larger or smaller volumes adjust the amount of T-Pro Gradient Gel Solution kit, TEMED, and APS added**

## Casting preparation volumes

	<b>8*10 cm</b>		0.75 mm (n = gels)		1.0 mm (n = gels)		1.5 mm (n = gels)	
	Stacker	Resolver	Stacker	Resolver	Stacker	Resolver	Stacker	Resolver
Mini gel								
T-Pro Gel Solution	1.5 ml x n	4 ml x n	2 ml x n	6 ml x n	3ml x n	8 ml x n		
TEMED	2 µl x n	4 µl x n	3 µl x n	6 µl x n	4 µl x n	8 µl x n		
10 % APS	15 µl x n	40 µl x n	20 µl x n	60 µl x n	30 µl x n	80 µl x n		

	<b>10*10 cm</b>		0.75 mm (n = gels)		1.0 mm (n = gels)		1.5 mm (n = gels)	
	Stacker	Resolver	Stacker	Resolver	Stacker	Resolver	Stacker	Resolver
Mini gel								
T-Pro Gel Solution	2 ml x n	6 ml x n	2.5 ml x n	8 ml x n	3 ml x n	10 ml x n		
TEMED	3 µl x n	6 µl x n	3 µl x n	8 µl x n	4 µl x n	10 µl x n		
10 % APS	20 µl x n	60 µl x n	25 µl x n	80 µl x n	30 µl x n	100 µl x n		

## TGS Running buffer conditions for T-Pro Gradient Gel Solution kit

	<b>50-60V</b>	<b>100-120V</b>
	<b>stacking</b>	<b>resolving</b>
<b>Run time</b>	25-20 min	90-60 min

\*When running 1-2 gels in the electrophoresis system, do not leave the companion module in the tank.

\*Do not run different gel types (chemistry) or percentages in the same tank at the same time.

\*Do not use acid or base to adjust pH of running buffer (MOPS or TGS).