

# T-Pro Gradient Gel Solution kit (6-18%)



Store at RT

(JB02-B618M) A 500ml + B 100ml

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

<b>Product Overview</b>	T-Pro Gradient Gel Solution 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 Gels allow a single separating gel. No stacking gel is required, as the T-Pro Gradient 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 gives these gels an increased gel strength, which allows for easier handling. T-Pro Gradient Gel Solution 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 10-15 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>Protocol</b>	For 10mL of T-Pro Gradient Gel Solution A <ol style="list-style-type: none"><li>1) Add 10<math>\mu</math>L TEMED and gently mix solution for even distribution.</li><li>2) Add 100<math>\mu</math>L 10% APS and gently mix solution for even distribution.</li><li>3) Pour the gel solution into gel cartridge to the top of the short plate.</li><li>4) Add the comb.</li><li>5) Allow to sit for approximately 10-15 minutes for polymerization.</li></ol> *For larger or smaller volumes adjust the amount of T-Pro Gradient Gel Solution, TEMED, and APS added
<b>Storage</b>	T-Pro Gradient Gel Solution is stable for RT

\*Gradient Gel Solution B = Stacking Solution (you can choose to use it or not, optional use: improves image sharpness and overall quality.)

## Casting preparation volumes

**8\*10 cm**

	0.75 mm (n = gels)	1.0 mm (n = gels)	1.5 mm (n = gels)
Total volume	6 ml x n	8 ml x n	11 ml x n
TEMED	6 µl x n	8 µl x n	11 µl x n
10 % APS	60 µl x n	80 µl x n	110 µl x n

**10\*10 cm**

	0.75 mm (n = gels)	1.0 mm (n = gels)	1.5 mm (n = gels)
Total volume	8 ml x n	11 ml x n	13 ml x n
TEMED	8 µl x n	11 µl x n	13 µl x n
10 % APS	80 µl x n	110 µl x n	130 µl x n

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

	<b>50V</b> <b>Low voltage</b>	<b>100V</b> <b>Standard</b>
<b>Run time</b>	5-15 min	60-90 min

### MOPS/SDS Running buffer conditions for T-Pro Gradient Gel Solution

	<b>75V</b> <b>Low voltage</b>	<b>150V</b> <b>Standard</b>
<b>Run time</b>	3-10 min	25-35 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).