

# PRECAST GELS (Biorad Chambers)

*Poly-Acrylamide Precast Gel (Tris Glycine) suitable for BioRad Electrophoresis chambers*

## Gradient

Cat.No.	Buffer	Well	Thickness	Max. loading Volume	Type	Concentration	Packaging	Price
<b>10Well, 1.0mm, Gradient</b>								
PCG-1010G20	TGX	10	1.0mm	50 µl	Gradient	4-20%	10 pieces/bx	€120,00/box
PCG-1010G16	TGX	10	1.0mm	50 µl	Gradient	4-16%	10 pieces/bx	€120,00/box
PCG-1010G12	TGX	10	1.0mm	50 µl	Gradient	4-12%	10 pieces/bx	€120,00/box
PCG-1010G8S	TGX	10	1.0mm	50 µl	Gradient	8-16%	10 pieces/bx	€120,00/box
PCG-1010G8T	TGX	10	1.0mm	50 µl	Gradient	8-20%	10 pieces/bx	€120,00/box
<b>15Well, 1.0mm, Gradient</b>								
PCG-1510G20	TGX	15	1.0mm	35 µl	Gradient	4-20%	10 pieces/bx	€120,00/box
PCG-1510G16	TGX	15	1.0mm	35 µl	Gradient	4-16%	10 pieces/bx	€120,00/box
PCG-1510G12	TGX	15	1.0mm	35 µl	Gradient	4-12%	10 pieces/bx	€120,00/box
PCG-1510G8S	TGX	15	1.0mm	35 µl	Gradient	8-16%	10 pieces/bx	€120,00/box
PCG-1510G8T	TGX	15	1.0mm	35 µl	Gradient	8-20%	10 pieces/bx	€120,00/box
<b>15Well, 1.5mm, Gradient</b>								
PCG-1515G20	TGX	15	1.5mm	50 µl	Gradient	4-20%	10 pieces/bx	€120,00/box
PCG-1515G16	TGX	15	1.5mm	50 µl	Gradient	4-16%	10 pieces/bx	€120,00/box
PCG-1515G12	TGX	15	1.5mm	50 µl	Gradient	4-12%	10 pieces/bx	€120,00/box
PCG-1515G8S	TGX	15	1.5mm	50 µl	Gradient	8-16%	10 pieces/bx	€120,00/box
PCG-1515G8T	TGX	15	1.5mm	50 µl	Gradient	8-20%	10 pieces/bx	€120,00/box



## Straight

Cat.No.	Buffer	Well	Thickness	Max. loading Volume	Type	Concentration	Packaging	Price
<b>10Well, 1.0mm, Straight</b>								
PCG-1010S08	TGX	10	1.0mm	50 µl	Straight	8%	10 pieces/bx	€120,00/box
PCG-1010S09	TGX	10	1.0mm	50 µl	Straight	9%	10 pieces/bx	€120,00/box
PCG-1010S10	TGX	10	1.0mm	50 µl	Straight	10%	10 pieces/bx	€120,00/box
PCG-1010S12	TGX	10	1.0mm	50 µl	Straight	12%	10 pieces/bx	€120,00/box
PCG-1010S15	TGX	10	1.0mm	50 µl	Straight	15%	10 pieces/bx	€120,00/box
PCG-1010S16	TGX	10	1.0mm	50 µl	Straight	16%	10 pieces/bx	€120,00/box



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## Precast gels – tris glycine for protein separation

### Difference between Gradient and Straight

1. The difference between gradient type and straight type:
  - a. Firstly, gradient gel has a wider separation range than single concentration gel, and can simultaneously separate protein with larger molecular weight.  
Straight gel cannot separate protein whose molecular weight exceeds its separation range.  
The pore size of gradient gel is larger than that of single gel. protein with higher molecular weight can be separated at the top of gel with large pore size, while protein with lower molecular weight can be separated at the bottom of gel with small pore size, so protein with higher and lower molecular weight can be separated at the same time.  
For example, 4% ~ 20% gradient gel can be used to separate protein with molecular weight of 250-10kDa.
  - b. Another advantage is that gradient gel can distinguish protein with small molecular weight difference, which cannot be distinguished in straight concentration gel. During electrophoresis, the protein migrates in the gradient gel, and the pore size becomes smaller and smaller until the pore size of the gel is impermeable, so that the protein is concentrated in a narrow zone during electrophoresis. However, protein with slightly smaller molecular weight can migrate to the front and be concentrated in the front zone.
  - c. Since the pore size of gradient gel gradually decreases, it can concentrate protein near the pore size that cannot be penetrated by protein, so a narrow zone is formed after electrophoresis, and protein with small molecular weight difference can be distinguished.  
For too dilute samples, samples can be added several times during electrophoresis, and protein molecules with different sizes will eventually stay in their corresponding gel pores and be separated.