

Jule Snap Gels™ Quick Guide

**** Bio-Rad and Novex Users ****
Special Instructions on Reverse Side

For Your Safety: Always wear eye protection and latex gloves.

Jule Mini Gels

Snap Off the Bottom Tab *Before* Running Gel:

- Remove gel cassette from foil pack.
- Place cassette on a lab bench with the bottom tab overhanging the edge and the notched plate facing up.
- Holding the cassette down with one hand rotate the tab down, then up. Use adjustable wrench for added leverage.



Electrophoresis:

- Remove comb and rinse sample wells with ultra-pure water.
- *For easy sample loading* - Wet and apply the enclosed Snappy-Load™ Decal to the back of the cassette.
- Place cassette in your apparatus according to its Operator's Manual.
- Fill the upper buffer chamber and check for leaks.
- Load your sample into the wells. Add sample buffer to empty lanes. Add buffer to lower chamber.
- Connect apparatus to power supply. **Run gels at constant voltage.**

Refer to Jule, Inc.'s recommended sample loading and power settings and the Operator's Manual for your electrophoresis apparatus.

Recommended Power Settings <i>Run Gels at Constant Voltage</i>				Sample Loading		
Gel Type	Thickness (mm)	Starting Current Milliamps per Gel	Run Time	Gel Type	Total Well Volume	Recommended Sample Load
Tris-Glycine	0.75	30	45 – 60 min.	0.75 mm 10 well 15 well	25 µL	2-15 µL
	1.00	33	45 – 60 min.		18 µL	2-10 µL
	1.50	35	45 – 60 min.			
TBE	0.75	20	60 min.	1.00 mm 10 well 15 well	33 µL	3-20 µL
	1.0	23	60 min.		24 µL	3-13 µL
	1.50	25	60 min.			
Tricine	0.75	30 – 40	60 – 90 min.	1.50 mm 10 well 15 well	50 µL	3-30 µL
	1.00	40 - 53	60 - 90 min.		37 µL	3-20 µL
	1.50	55 – 60	60 – 90 min.			
Tris – Acetate	0.75	20 - 28	60 - 90 min.			
	1.00	30 - 37	60 - 90 min.			
	1.50	40 - 55	60 - 90 min.			

To remove Gel from the Cassette:

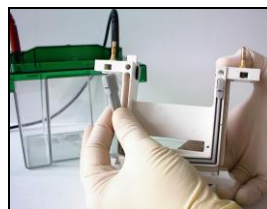
- Place cassette on edge of lab bench as shown.
- Insert the tip of a screwdriver between the plates near the bottom side of the cassette.
- Pry the screwdriver down gently and listen for a “snap.” Moving along the cassette's edge, repeat until the entire seal is broken. Repeat on opposite side.
- Carefully lift the top plate. Use cassette half to carry gel for staining or blotting.



Special Instructions for Jule Mini Snap-Gel™ Universal Cassettes

Bio-Rad Mini Protean II™

- Gently pull the gasket out using your fingers (see right). Clean the groove and gasket using a mild detergent.
 - Dry the groove and gasket. *Reinsert the gasket so the smooth side of the gasket faces outward.* The smooth face of the Jule Cassettes against the smooth gasket will prevent upper buffer tank leakage.
- For BioRad Protean II users, turn each of the 4 screws ¼ turn after screw contacts cassette. Do not over tighten.**



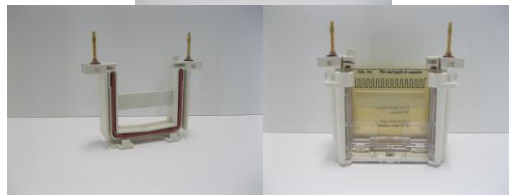
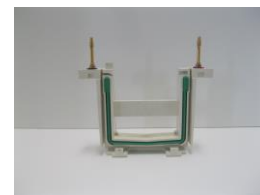
Bio-Rad Mini Protean 3, Tetra Cell and Dodeca.

Running One Gel

- Remove and flip the green colored gasket (see above photo) before inserting Jule Cassette. Use notched spacer on opposite side (supplied with BioRad unit) to create inner (upper) buffer chamber. Do not flip green gasket on side with notched spacer.

Running Two Gels at a Time:

- If not included, request free gaskets from Jule, Inc. to run 2 gels at a time.
- Remove green colored gaskets and replace with gaskets supplied by Jule, Inc. Smooth face of Jule gasket provides leak tight seal with Jule Cassettes.



Invitrogen (Novex Xcell™ I, II, & SureLock™)

- For adequate sealing pressure, place the supplied *plastic spacer* into the apparatus at the back of the tension wedge (SureLock unit) or between the wedge and rear cassette (Xcell units).
- Fill the upper (inner) buffer chamber to approximately 0.5 cm above the short plate. **Add 300 ml of buffer to the lower (outer) buffer chamber.** Jule cassettes require less buffer.

Note: The Snap-Gel Cassette provides the maximum path length in an 8cm x 10cm cassette. Jule cassette will sit lower in your apparatus and require less buffer. The gel's path length is comparable to Invitrogen 10cm x 10cm cassettes



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