

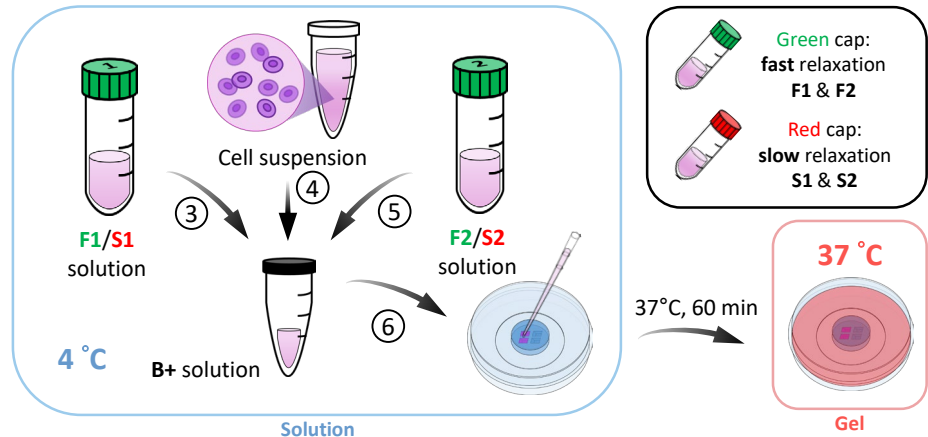
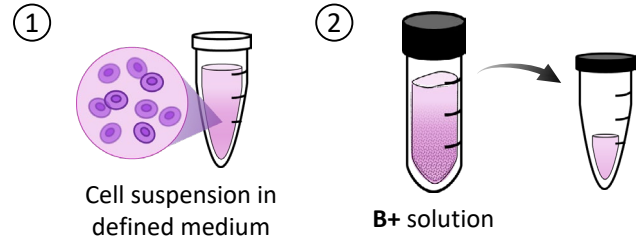
General remarks

This guide describes standard cell culture in dome or microwell format (e.g. ibidi Cat. # 80409). The protocol can be adapted for different cell densities or culture formats.

!!! DyNAtrix is optimized for fully defined media. **Do not add serum or conditioned media**, as they may degrade the matrix.

Preparation

1. Prepare cell suspension in a defined, serum-free medium.
Recommended cell-stock density:
 $1-4 \times 10^6$ cells/mL
2. Pipette 10 μ L of B+ into a tube.
Keep it on ice.



Cell embedding at 4 °C / on ice

Use the table below to identify the gel component volumes.

3. Add **F1** or **S1** to the 10 µL **B+**.

Mix *thoroughly* by pipetting up and down.

4. Add 5 µL cell suspension. For types 3–4, also add 5 µL serum-free medium.

Mix *thoroughly* by pipetting up and down.

5. Add **F2** or **S2** to the mixture from step 4.

Mix *thoroughly* by pipetting up and down.

6. Immediately dispense 5 µL per microwell or ≥20 µL per dome.

Initiate culture conditions at 37 °C

1. Incubate at 37 °C, 5% CO₂ for **60 min**.

2. Gently cover the microwell insert or dome with serum-free medium.

3. Continue incubation at 37 °C, 5% CO₂.

Gel type	Select properties		Gel components (µL) per 25-µL mixture						
	Stiffness (G')	Stress-relaxation (τ)	B+	F1	F2	S1	S2	Serum-free medium	Cells
1	100 Pa	75 min	10	5	5				5
2	100 Pa	1.1 days	10			5	5		5
3	50 Pa	75 min	10	2.5	2.5			5	5
4	50 Pa	1.1 days	10			2.5	2.5	5	5



For detailed protocol, visit
www.dynamicmatrices.eu