

Re:ancel Bio Quick Start Guide

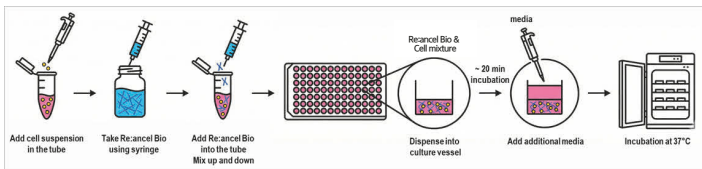


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This guide provides basic preparation steps and instructions for using Re:ancel Bio to help you easily get started with 3D cell culture experiments.

- **Materials:** 1 wt.% Re:ancel Bio stock, 1 mL syringe, wide-bore tips, cell suspension
- **Critical Parameters checklist:** ☒
 - I. Confirm final Re:ancel Bio concentration (wt.%) ☐
 - II. Define cell seeding density ☐
 - III. Calculate total volume with an additional 20% allowance ☐

Workflow



Step	Action	Caution
Preparation	Prepare the cell suspension at the desired concentration for culture	Prevent cell aggregation
Mixing	Add Re:ancel Bio to the cell suspension and mix by pipetting (up-and-down) with a syringe (≥ 30 times)	Minimize bubble formation
Dispensing	Dispense with wide-bore tips and incubate at 37 °C for 20 min to allow matrix stabilization	Maintain consistent dispensing volume
Overlay	Gently overlay culture medium along the vessel wall at a 1:1 volume ratio	Maintain matrix integrity

Precautions for Use

- **Handling viscous samples:** Since Re:ancel Bio is a viscous material, the use of syringes or positive displacement pipettes is highly recommended. (Avoid using standard pipette tips.)
- **Preparation before use:** Equilibrate at RT for 30–60 min before use.
- **Recovery:** Gently snap or flick the vial to collect sample from the walls.
- **Media exchange:** Replace half of the supernatant (add 20–30% for evaporation).
- **Indistinct interface:** If the boundary is unclear, perform a low-speed short spin-down.
- **Storage:** Store at 2–8°C. Do NOT freeze, as freezing will cause irreversible changes to the material's physical properties.