

RASTRUM

Protocol

Cell Retrieval from RASTRUM Matrix



Introduction

RASTRUM Cell Retrieval Solution is an enzymatic-based reagent for use in rapid extraction of cells encapsulated in RASTRUM matrix for use in downstream applications.

Storage and handling of reagents

Store reagents at -20 °C upon receipt. For best results, do not leave reagents at room temperature (RT) for longer than 1 hour.

Materials and reagents required, not provided

- RASTRUM 3D cell models
- 1 x Phosphate Buffered Saline (PBS) solution

Protocol

1. Thaw reagents, 20-30 min at RT.
2. Aspirate and discard media from printed 3D cell models.
3. Wash with 150 µL 1 x PBS, 5 min at 37 °C.
4. Aspirate and discard PBS.
5. Overlay the cell model(s) with 75 µL Cell Retrieval solution (Support Fluid F180).
6. Incubate for 20 min at 37 °C.

Note: At this stage, dissolution of the biofunctional matrix will be complete, but the inert base will remain intact.

7. Transfer solution containing dissociated cells into a microcentrifuge tube.

Optional: To maximise cell recovery, wash each well with an additional 150 µL PBS and combine with cell suspension from Step 7.

8. Pellet cells using cell-specific centrifugation parameters.
9. Remove and discard supernatant.
10. Using recovered cells proceed to downstream analysis or further culturing as required.



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