

TISSUE DIGESTION KIT

A product designed to allow the quick and gentle release of single cells from primary tissue while preserving the highest yield.

Storage:

Store at -20°C for 6-month stability or at -80°C for stability until expiry date.
Protect from light. Avoid repeated freezing and thawing.

Contents:

4 vials x 4 mL of digestion solution (containing Collagenase types I and IV, and Hyaluronidase).
Product sufficient for digestion of 16 g of tissue.

Digestion protocol:

1. Using a sterile scalpel or scissors, cut tissue into 1-4 mm pieces. Weigh them separately.
2. Wash the tissue with an appropriate buffer or a balanced salt solution (e.g. PBS).
3. Transfer the tissue fragments into a 48-well plate or suitable tubes containing the appropriate amount of the Tissue Digestion Kit (1 mL per 1 g of tissue).
4. Incubate at 37°C on an orbital shaker (e.g. 30-60 rotations per minute) for 60 minutes or vortex every 10 minutes.
5. Pass the cell suspension through a cell strainer (not included).
6. For dense tissue material (e.g. hard tumor tissue), collect the cells from step 5 in a separate container. The remaining non-digested tissue from the cell strainer can be processed in step 4 for up to 3 times (add 1 mL of the Tissue Digestion Kit per 1 g of tissue or less). Otherwise, skip this step and go to step 7.
7. Centrifuge the cell suspension at 1000 rpm for 7 minutes. Discard the supernatant. Resuspend cells in an appropriate buffer or balanced salt solution or medium.
8. If required, count and seed cells for culture.

Real Research products are intended for research use only, not for diagnostic or therapeutic purposes.

Real Research Sp. z o.o. ul. prof. Michała Bobrzyńskiego 14, 30-348 Kraków

Call us on: +48 603-984-577 | Email us at: sale@real-research.com | Visit our website: www.real-research.com