

# Organoid Cryopreservation Medium

### Introduction

Organoid Cryopreservation Medium optimizes the formulation of cryopreservation, can maintain the viability and function of organoids, and can be widely used in the cryopreservation of a variety of organoids.

### Components and Storage

Size	100 mL	Storage
Components	IOU IIIL	Storage
Organoid Cryopreservation Medium	100 mL	4°C
Shipping: Blue ice Shelf life	e: 1 year	P telofe

## Materials Required but Not Included

Products	Catalog number
Organoid Wash Buffer	K2846

#### Protocol

Cryopreservation must be performed when the organoids are in optimal condition. Fast-growing organoids (up to  $300-500~\mu m$  in diameter) can be cryopreserved when they reach  $150-200~\mu m$  in diameter. Slow-growing organoids (up to  $100-300~\mu m$  in diameter) can be cryopreserved when they reach  $100-150~\mu m$  in diameter.

During the cryopreservation, gently pipetting to ensure the integrity of the organoids.

#### Organoid harvest

- 1) Discard the medium and slowly add pre-chilled Organoid Wash Buffer to the wells (PBS containing 1% antibiotics can also be used).
- 2) Pipet Matrigel/Organoid/Medium mixture up and down to release organoid from the Matrigel.

\*Note: If finding that organoids are attached to the wall, scrape the organoid off with a pipette tip.

- 3) Transfer the mixture to a new 15 mL tube and add Organoid Wash Buffer to make up the volume to 12 mL.
- 4) Place the tubes in -20°C for 6 min or 4°C for 30 min.

\*Note: Brief periods of low temperature do not affect the activity of organoids, and Matrigel can also be removed by taking advantage of the properties of Matrigel dissolving at low temperatures.

- 5) Centrifuge at 300 g or 1500 rpm for 5 min, and discard the supernatant.
- 2. Organoid cryopreservation
  - 1) Depending on the pellet volume, mix the pellet and Organoid Cryopreservation Medium at a ratio of 1:10.
  - 2) After mixing, aliquot the organoids into cryopreservation vials, and perform cryopreservation by programmed cooling.

\*Note: Cryopreserved organoids can be stored at -80°C for one month, and for long-term storage, store the vials in a liquid nitrogen tank.

#### Note

- 1. For your safety and health, please wear lab coats and gloves during the experiment.
- 2. For research use only. Not to be used in clinical diagnostic or clinical trials.





## APExBIO Technology

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