

bioGenous™ Organoid Cryopreservation Medium (Serum-free)

Catalog: E238023

Product Description

bioGenous™ Organoid Cryopreservation Medium (Serum-free) is designed for the long-term cryopreservation of organoids and cell lines from various mammalian sources (e.g., human, mouse, pig, bat, cow). This serum-free medium, which contains 10% DMSO, is designed without any animal-derived components to ensure the preservation of cell viability and functionality during extended storage. The medium has been rigorously tested and validated across a range of tissues, offering reliable cryopreservation without compromising cell integrity or inducing apoptosis.

Product Information

Component	Catalog#	Volume	Storage& Stability
bioGenous™ Organoid Cryopreservation Medium (Serum-free)	E238023	100 mL/500 mL	2-8°C, 36 months

Directions for Use

Select organoids (or cells) in good growth condition for cryopreservation experiments.

Organoid/Cell Cryopreservation

1. Add pre-chilled (2-8°C) bioGenous™ Organoid Cryopreservation Medium to the centrifuged organoids (or cells). Gently mix and quickly transfer the suspension to a cryovial (the volume of cell suspension in the cryovial should be greater than 0.5 mL).

Note: It is recommended to freeze 10^3 to 10^7 cells or the equivalent amounts of organoids per 1 mL of cryopreservation medium.

Note: For large volumes, multi-layered, or squamous cell-derived organoids, due to their dense structure, it is advisable to digest with Organoid Dissociation Solution for 3-15 min before washing twice with Basal Medium and then proceeding with cryopreservation.

2. Place the cryovial in a cell freezing container (the container should be equilibrated to room temperature or 4°C beforehand), and then immediately transfer the container to a -80°C ultra-low temperature freezer. Alternatively, perform a manual stepwise cooling process, such as incubating at 4°C for 10 min, -20°C for 1 hour, and then -80°C overnight.
3. The next day or after 12 hours, transfer the cryovial to liquid nitrogen for long-term storage under low temperature conditions (not above -70°C; dry ice or the original freezing container is recommended).

Organoid/Cell Recovery

1. Pre-warm the required Basal Medium for organoids (or cells) at 37°C.
2. Rapidly thaw the cryovial in a 37°C water bath. When only small ice crystals remain, immediately stop the water bath and promptly transfer the vial to a clean working area.
3. Transfer the thawed suspension to a centrifuge tube, and slowly add 5-10 times the volume of pre-warmed

basic medium. Gently mix.

4. Centrifuge the resulting organoid (or cell) suspension (horizontal rotor, 150-300 x *g*, 3 min), discard the supernatant, and resuspend the organoids (or cells) in basic medium. Centrifuge the resuspended organoids (or cells) again (horizontal rotor, 150-300 x *g*, 3 min). After discarding the supernatant, the recovered organoids (or cells) can be used for subsequent culturing.

Quality Control

All components are negative for bacterial and fungal contamination. Certificate of authenticity (COAs) for all other products are available upon request.

Safety information

Read the Safety Data Sheets (SDSs) and follow the manufacture's instruction.

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Contact and Support

For questions, suggestions, and technical supports, please contact us at E-mail: info@biogenous.cn.

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