Human Expanded Potential Stem Cell (hEPSC) culture Medium

港能生物科技
GNG BIOTECH

For the maintenance of hEPSCs
Ref #hu000001 500mL

Product Description

Human EPSC medium (hEPSCM) contains rich nutrition and is used for daily maintenance of human EPSC cell lines. hEPSCM should be prepared sterilely and freshly. The preparation process should be carried out in Class II Biosafety Cabinet with proper personal protective equipment.

Product Information

COMPONENT NAME	COMPONENT #	SIZE	STORAGE	SHELF LIFE
Human Expanded Potential Stem Cell (hEPSC) culture Medium	Hu000001	500 mL	Store at 2 - 8°C.	Stable for 12 months from date of manufacture (MFG) on label.

Please refer to the Safety Data Sheet (SDS) for hazard information.

Preparation of Human Expanded Potential Stem Cell (hEPSC) culture Medium

The following example is for preparing 500 mL of complete medium. If preparing other volumes, adjust accordingly.

1. Gather all the components together and put them in Biosafety Cabinet after swiping with 70% ethanol.

2. Prepare a 500mL or 1L sterile glass bottle. Put all the components one by one into the bottle according to the order and amount. Tight the lid of the bottle. Gently shake the bottle to make all the components mix well.

3. Prepare another sterile glass bottle. The hEPSCM will be filtered by the 500ml bottle top filter to make hEPSCM germ free.

4. Aliquot the germ-free hEPSCM into suitable containers. Seal all the containers with parafilm and temporarily store them in a 4-degree fridge before use.

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Directions for Use

1. **Thawing the Medium** - If stored frozen, thaw the medium at 2-8°C to prevent degradation of sensitive components. Avoid using a microwave or hot water bath for thawing.
2. **Preparation of Work Area** - Before using the medium, ensure that the work area is sterile. Clean and disinfect the biosafety cabinet where the medium will be handled.
3. **Equilibration** - Equilibrate the medium to room temperature or 37°C before adding it to the cell culture to avoid thermal shock to the cells.
4. **Medium Change** - Perform regular medium changes according to your specific cell line and culture conditions. Typically, hEPSC medium should be changed every 1-2 days.

- **Avoid repeated freeze-thaw cycles** of the medium as this can lead to degradation of critical components.

- **Always handle the medium using sterile techniques** to prevent contamination.

- **Dispose of old medium and waste materials** according to your institution's safety and waste disposal guidelines.

These directions are generalized for typical use and might need adjustments based on specific experimental setups or cell line requirements. Always refer to detailed protocols and guidelines specific to your cells and experiments.

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