

BEWO | 300123

BEWO

Description

BEWO, a mouse embryonic stem (ES) cell line, is derived from a 129/Ola mouse embryo. It is a pluripotent cell line that can differentiate into all three germ layers (ectoderm, mesoderm, and endoderm). BEWO cells are widely used in stem cell research, particularly in the study of cell differentiation, gene expression, and the generation of transgenic mice. BEWO cells are maintained in culture on feeder cells (MEFs) and express markers such as Oct4, Sox2, and Klf4. BEWO cells are also used in the study of embryonic development and the generation of induced pluripotent stem (iPS) cells.

Organism Mouse

Tissue Embryonic stem cells

Disease Not applicable

Metastatic site Not applicable

Synonyms BeWo, Be Wo, Be-Wo

BEWO

Age Not applicable

Gender Not applicable

Morphology Adherent cells

Growth properties Not applicable

BEWO

Citation BEWO (BEWO) Cytion 300123

Biosafety level 1

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Thawing and Culturing Cells

1. **Thawing:** Thaw the vial rapidly in a 37°C water bath. Do not allow the cells to reach room temperature.
2. **Centrifugation:** Centrifuge the cells at 300 x g for 3 minutes at 4°C. Remove the supernatant and resuspend the cells in 10 ml of pre-warmed culture medium.
3. **Resuspension:** Resuspend the cells in 10 ml of pre-warmed culture medium. Count the cells and seed into a T25 flask.
4. **Seeding:** Seed the cells into a T25 flask containing 10 ml of pre-warmed culture medium. The final cell density should be approximately 1.5 x 10⁶ cells per flask.
5. **Incubation:** Incubate the cells in a humidified incubator at 37°C with 5% CO₂. Change the medium after 24 hours.
6. **Passaging:** When the cells reach 70-80% confluency, passage them into a new T25 flask.
7. **Media:** Use DMEM supplemented with 10% FBS for initial growth and 5% FBS for maintenance.
8. **Quality Control:** Perform regular quality control checks, including mycoplasma testing.

Incubation Atmosphere 37°C, 5% CO₂, humidified

Flask Coating **Non-adherent**

Freezing Procedure **Not applicable**

Shipping Conditions **Not applicable**

Storage Conditions **Not applicable**

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Sterility

BEWO is provided as a sterile suspension in DMEM supplemented with 10% FBS. The cells are not tested for mycoplasma contamination.

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HLA

A*: '01:01:01, '11:01:01

B*: 08:13, 35:01:01

C*: 04:01:01, 07:01:01

DRB1*: '01:03:01, '03:01:01

DQA1*: '01:01:01, '05:01:01

DQB1*: '02:01:01, '05:01:01

DPB1*: '01:01:01, '04:01:01

E: 01:01:01