

Product sheet

MG-63 | 300441

MG-63

Description

MG-63, is a human osteosarcoma cell line established from a 14-year-old patient with osteosarcoma of the femur. The cells are derived from a primary tumor and are characterized by their ability to form osteoid matrix in vitro. MG-63 cells are highly proliferative and are used in various studies related to bone cancer research. The cells are maintained in DMEM supplemented with 10% fetal bovine serum (FBS) and 1% penicillin-streptomycin. MG-63 cells are highly sensitive to bisphosphonates and are used to study the mechanism of action of these drugs. MG-63 cells are also used to study the role of calcium signaling in bone cancer. MG-63 cells are highly sensitive to calcium ionophores and are used to study the role of calcium signaling in bone cancer. MG-63 cells are highly sensitive to calcium ionophores and are used to study the role of calcium signaling in bone cancer.

Organism Human

Tissue Bone

Disease Osteosarcoma

Metastatic site Lung, Liver, Bone

Synonyms M-G63, MG63

MG-63

Age 14 years

Gender Male

Ethnicity Caucasian

Morphology Epithelial

Growth properties Adherent

MG-63

Citation MG-63 (ATCC CCL-22) Cytion 300441

Biosafety level 1

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Thawing and Culturing Cells

1. Thaw the cells quickly in a water bath at 37°C. Do not allow the cells to reach room temperature. Transfer the cells to a pre-warmed medium.
2. Seed the cells into a pre-warmed medium. Incubate at 37°C with 5% CO₂ in a humidified atmosphere.
3. Monitor the cells for attachment and growth. Change the medium after 24 hours.
4. Once the cells are established, passage them into a new flask when they reach 70-80% confluency.
5. Use a pipette to transfer 15 µl of the cell suspension into 8 µl of medium.
6. Seed the cells into a flask containing 300 x g of medium. Incubate at 37°C with 5% CO₂.
7. Monitor the cells for attachment and growth. Change the medium after 10 µl of the cell suspension.
8. Once the cells are established, passage them into a new flask when they reach 70-80% confluency.

Incubation Atmosphere 37°C, 5% CO₂, humidified atmosphere

Flask Coating Not required

Freezing Procedure Freeze the cells in a freezing medium and store at -80°C.

Shipping Conditions Ship the cells at -80°C.

Storage Conditions Store the cells at -150°C for 196 days.

MG-63 / MG-63 / HLA

Sterility The cells are free of mycoplasmas and PCR detectable. The cells are free of endotoxins.

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HLA

- A*: 01:01:01
- B*: 08:01:01
- C*: 07:01:01
- DRB1*: 03:01:01
- DQA1*: 05:01:01
- DQB1*: 02:01:01
- DPB1*: '01:01:01, '04:02:01
- E: 01:01:01