

MB49-Luc | 305681

Key features

Description MB49-Luc is a luciferase-expressing cell line derived from MB49 melanoma cells. It is characterized by high luciferase activity and is used for bioluminescence imaging (BLI) in preclinical studies. The cells are stably transfected with a luciferase gene under the control of a constitutive promoter. MB49-Luc cells are highly tumorigenic and metastasize to various organs, including the lungs, liver, and brain. The luciferase activity is measured using a bioluminescence counter or imaging system. MB49-Luc cells are available in a 100% confluent T75 flask or as a cell suspension. The cells are maintained in DMEM supplemented with 10% FBS. MB49-Luc cells are highly tumorigenic and metastasize to various organs, including the lungs, liver, and brain. The luciferase activity is measured using a bioluminescence counter or imaging system. MB49-Luc cells are available in a 100% confluent T75 flask or as a cell suspension. The cells are maintained in DMEM supplemented with 10% FBS.

Organism Human

Tissue Melanoma

Disease Melanoma

Synonyms MB49-Luc, MB49 LucSH+

Characteristics

Age 1-3 months

Gender Male

Ethnicity C57BL/6

Morphology Adherent

Growth properties High growth rate

Documentation

Citation MB49-Luc (Cytion) | Cytion: 305681

Biosafety level 1

NCBI_TaxID 10090

CellosaurusAccession CVCL_E8D4

Product sheet

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GMO Status GMO-S1: XXXXXX XXXXXX XXXXXXXX MB49 XXXXXXXX XXXXXXXX XXXXXXXX XXX XXX XXXXXX XXXXXXXX a-Luc XXXXXXXX XXXXX XXXXXXX XXXXXXX

XXXXXXXXXXXX XXXXXXXXXXXX XXXXXXXXXXXX

Protein expression XXX

Karyotype XXX XXXXXXXXXXXXXY

XXXXXXXXXXXX

Culture Medium DMEM

Supplements XX XXXXXXX XXXXXX X 10X XX XX FBS

Dissociation Reagent XXXXXXX

Doubling time 24-48 XXXXX

Subculturing XX XXXXXXX XXXXXX XXXXXXX XX XXXXXXX XXXXXXXXXX XXXXXXX XXXXXXXXXX PBS XXXXX XXXXXX XX XXXXXXXXXXXX XXXXXXXXXXXXXXX XXXXXXXXXXX XXXXXXXXXXX

Split ratio XX 1 XXX 3

Seeding density 1 XXX 3 X⁴ XXXX/XXXX

Fluid renewal 2 XXX 3 XXXXX XX XXXXXXX

Freeze medium XXXXXX XXXXXXX XXXXXXXXXXXX XXXXXXX XXX XXX XXXX + 10% DMSO XXXXXXX XXX XXXXXXX XXXXXXX XXX XXXXXXX XXXXXXX

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Thawing and Culturing Cells

1. Thaw the cells in a water bath at 37°C. Transfer the cells to a centrifuge tube and centrifuge at 300 x g for 5 minutes. Remove the supernatant and resuspend the cells in 1 ml of complete medium. Seed the cells into a 24-well plate at a density of 150,000 cells per well. Incubate for 24 hours.
2. After 24 hours, replace the medium with fresh complete medium. Incubate for 72 hours.
3. After 72 hours, replace the medium with fresh complete medium. Incubate for 37°C for 24 hours.
4. After 24 hours, replace the medium with fresh complete medium. Incubate for 70% confluency.
5. After 70% confluency, replace the medium with fresh complete medium. Incubate for 15 days. Harvest at day 8.
6. Harvest the cells into a 200 x 15 mm tube. Centrifuge at 300 x g for 5 minutes. Resuspend in 1 ml of complete medium.
7. Seed the cells into a 24-well plate at a density of 150,000 cells per well.

Incubation Atmosphere 37°C, 5% CO₂

Shipping Conditions 4°C

Storage Conditions -150°C to -196°C

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