

MLE-12 | 305314

General information

Description	MLE-12 is a cell line derived from MLE-12 cells. It is a highly proliferative cell line that is used for the study of breast cancer. MLE-12 cells are derived from a primary mammary carcinoma and are characterized by their ability to form mammary gland-like structures in culture. MLE-12 cells are highly tumorigenic and are used as a model for studying the biology of breast cancer.
Organism	Human
Tissue	Mammary gland
Disease	Breast cancer
Synonyms	MLE 12, MLE12, MLE-12, MLE12-12

Characteristics

Breed/Subspecies	FVB/N-Tg(SFTPC-TAg)5.1Jaw
Age	5 weeks
Gender	Male
Morphology	Epithelial cells
Cell type	Epithelial cells
Growth properties	Highly proliferative

References

Citation	MLE-12 (Mammary Epithelial Cell Line) Cytion 305314
Biosafety level	1
NCBI_TaxID	9606
CellosaurusAccession	CVCL_3751

MLE-12 | 305314

Thawing and Culturing Cells

1. Thaw the cells rapidly in a water bath at 37°C. Do not allow the cells to reach room temperature. After thawing, centrifuge at 300 x g for 3 minutes. Remove the supernatant and resuspend the cells in 15 mL of complete medium. Seed the cells into 8 wells of a 96-well plate.
2. Incubate the cells at 37°C in 5% CO₂ for 24 hours. After 24 hours, check the cell density. If the cell density is below 70% confluence, add fresh medium.
3. After 48 hours, check the cell density. If the cell density is below 70% confluence, add fresh medium.
4. After 72 hours, check the cell density. If the cell density is below 70% confluence, add fresh medium.
5. After 96 hours, check the cell density. If the cell density is below 70% confluence, add fresh medium.
6. After 120 hours, check the cell density. If the cell density is below 70% confluence, add fresh medium.
7. After 144 hours, check the cell density. If the cell density is below 70% confluence, add fresh medium.
8. After 168 hours, check the cell density. If the cell density is below 70% confluence, add fresh medium.

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

Flask Coating No coating

Freezing Procedure Harvest cells at 78°C

Shipping Conditions Store at -78°C

Storage Conditions Store at -150°C for 196 weeks

HLA

Sterility Sterile, PCR negative, mycoplasma free, endotoxin free