

Product sheet

MDA-MB-231 | 300275

Cell Line

Description MDA-MB-231 is a cell line derived from a metastatic site of a breast cancer patient. It is characterized by its high growth rate and ability to form colonies in soft agar. The cell line is known for its heterogeneity and is often used in research on breast cancer metastasis and drug resistance. Key genetic features include the presence of TP53, KRAS, and BRAF mutations.

Organism Human

Tissue Breast

Disease Breast Cancer

Metastatic site Metastatic

Synonyms MDA_MB_231, MDA-MB 231, MDA.MB.231, MDA MB 231, MDA MB231, MDA Mb231, MDA-MB231, MDAMB-231, MDAMB231, MDA-231, MDA-231P, MDA231, MDA231-BRE, MB231, MD Anderson-Metastatic Breast-231

Cell Line Characteristics

Age 51 years

Gender Female

Ethnicity Caucasian

Morphology Epithelial

Growth properties Adherent

Cell Line Identification

Citation MDA-MB-231 (ATCC CCL-231) | Cytion 300275

Biosafety level 1

NCBI_TaxID 9606

CellosaurusAccession CVCL_0062

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Cell Line - MDA-MB-231

Cell Line

Culture Medium DMEM:Ham's F12 (1:1), w: 3.1 g/L β -mercaptoethanol, w: 2.5 mM L-glutamine, w: 15 mM HEPES, w: 0.5 mM β -mercaptoethanol, w: 1.2 g/L NaHCO₃ 820400a)

Supplements 5% FBS

Dissociation Reagent Trypsin

Subculturing Cells are cultured in DMEM:Ham's F12 (1:1) supplemented with 5% FBS in T25 flasks. When cells reach 70-80% confluency, they are trypsinized and seeded into 3-5 new T25 flasks.

Fluid renewal 2-3 times per week

Freeze medium DMEM:Ham's F12 (1:1) supplemented with 10% FBS and 10% DMSO

- Thawing and Culturing Cells**
1. Thaw the vial in a 37°C water bath and transfer the cells to a 15 mL centrifuge tube.
 2. Add 10 mL of DMEM:Ham's F12 (1:1) supplemented with 10% FBS to the tube.
 3. Centrifuge at 300 x g for 3 minutes.
 4. Remove the supernatant and resuspend the cells in 10 mL of DMEM:Ham's F12 (1:1) supplemented with 10% FBS.
 5. Seed the cells into a T25 flask.
 6. Incubate the cells in a 37°C incubator with 5% CO₂.
 7. Monitor the cells for confluency.
 8. Once cells reach 70-80% confluency, they can be subcultured.

Incubation Atmosphere 37°C, 5% CO₂, humidified

