

MDA-MB-436 | 300278

Cell line

Description	MDA-MB-436 is a human breast cancer cell line derived from a 43-year-old female patient with a primary tumor (TNBC), metastatic to the lung, liver, and bone. MDA-MB-436 is characterized by its high tumorigenicity, ability to form mammary xenografts, and resistance to BRCA1 and TP53. MDA-MB-436 is a highly metastatic cell line, with a high rate of spontaneous metastasis to the lung, liver, and bone.
Organism	Human
Tissue	Breast
Disease	Breast cancer
Metastatic site	Lung, liver, bone
Synonyms	MDA_MB_436, MDA MB 436, MDA-Mb-436, MDA-MB436, MDAMB436, MDA-436, MDA436, MB436, MD Anderson-Metastatic Breast-436

Cell characteristics

Age	43 years
Gender	Female
Ethnicity	White
Morphology	Epithelial, glandular
Growth properties	Adherent

Cell line identification

Citation	MDA-MB-436 (ATCC CCL-222) Cytion 300278
Biosafety level	1
NCBI_TaxID	9606

MDA-MB-436 | 300278

CellosaurusAccession CVCL_0623

Cell Line Name - Cell Line Number

Cell Line Type

Culture Medium	DMEM:Ham's F12 (1:1), w: 3.1 g/L Glucose, w: 2.5 mM L-Glutamine, w: 15 mM HEPES, w: 0.5 mM Sodium Pyruvate, w: 1.2 g/L NaHCO ₃ 820400a)
----------------	--

Supplements	Insulin Transferrin 5% FBS
-------------	----------------------------

Dissociation Reagent	Trypsin
----------------------	---------

Subculturing	Cells are typically grown in 25 cm ² flasks in DMEM:Ham's F12 (1:1), w: 3.1 g/L Glucose, w: 2.5 mM L-Glutamine, w: 15 mM HEPES, w: 0.5 mM Sodium Pyruvate, w: 1.2 g/L NaHCO ₃ 820400a) supplemented with 5% FBS. For subculturing, cells are detached using Trypsin and seeded into new flasks in DMEM:Ham's F12 (1:1), w: 3.1 g/L Glucose, w: 2.5 mM L-Glutamine, w: 15 mM HEPES, w: 0.5 mM Sodium Pyruvate, w: 1.2 g/L NaHCO ₃ 820400a) supplemented with 5% FBS.
--------------	--

Fluid renewal	2 to 3 times per week
---------------	-----------------------

Freeze medium	DMEM:Ham's F12 (1:1), w: 3.1 g/L Glucose, w: 2.5 mM L-Glutamine, w: 15 mM HEPES, w: 0.5 mM Sodium Pyruvate, w: 1.2 g/L NaHCO ₃ 820400a) supplemented with 10% DMSO and 10% FBS.
---------------	--

Thawing and Culturing Cells	1. Thaw cells rapidly in a water bath at 37°C. 2. Dilute cells into DMEM:Ham's F12 (1:1), w: 3.1 g/L Glucose, w: 2.5 mM L-Glutamine, w: 15 mM HEPES, w: 0.5 mM Sodium Pyruvate, w: 1.2 g/L NaHCO₃ 820400a) supplemented with 10% FBS. 3. Seed cells into a 25 cm² flask. 4. Allow cells to attach and grow for 24-48 hours. 5. Perform a cell count and passage cells into a new flask when they reach 70-80% confluency. 6. Repeat the process for subsequent passages. 7. Store cells in liquid nitrogen for long-term storage. 8. Thaw cells and seed them into a new flask when needed.
-----------------------------	---

MDA-MB-436 | 300278

Incubation Atmosphere 37°C, 5% CO_2 , humidified air

Flask Coating none

Freezing Procedure Cells are seeded into 100% FBS medium and grown to confluence. Cells are then trypsinized and resuspended in 100% FBS medium. Cells are then centrifuged at 300g for 5 minutes and resuspended in 100% FBS medium. Cells are then frozen in 100% FBS medium and stored at -78°C.

Shipping Conditions Cells are shipped in 100% FBS medium and stored at -78°C.

Storage Conditions Cells are stored in 100% FBS medium at -150 to -196 °C for up to 196 weeks. Cells are then thawed and resuspended in 100% FBS medium.

MDA-MB-436 | 300278

Sterility Cells are grown in 100% FBS medium and are free of mycoplasma contamination. Cells are PCR negative for mycoplasma contamination. Cells are also free of endotoxins and are suitable for use in cell-based assays.