

MDA-MB-415 | 305129

Cell Line

Description	MDA-MB-415 is a human breast cancer cell line derived from a metastatic site. It is characterized by its ability to form mammary tumors in nude mice. The cell line is highly invasive and metastatic, with a high rate of tumor formation in vivo. It is a good model for studying breast cancer biology and drug response.
Organism	Human
Tissue	Breast, Metastatic
Disease	Breast Cancer
Metastatic site	Metastatic
Synonyms	MDA-MB415, MDAMB415, MDA-415, MDA415, MD Anderson-Metastatic Breast-415

Characteristics

Age	38 years
Gender	Female
Ethnicity	White
Morphology	Epithelial
Growth properties	Adherent

Documentation

Citation	MDA-MB-415 (Cytion 305129)
Biosafety level	1
NCBI_TaxID	9606
CellosaurusAccession	CVCL_0621

Product sheet

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Cell Line: MDA-MB-415

Protein expression	HER2 (Amplex)
Antigen expression	HER2
Tumorigenic	Yes

Media

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 NaHCO3 (820400a)
Supplements	10% FBS
Dissociation Reagent	Trypsin
Subculturing	Cells are seeded into T25 flasks. When cells reach 80-90% confluency, they are trypsinized and seeded into new flasks. The medium is changed every 3-5 days.
Fluid renewal	2-3 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 NaHCO3 (820400a), 10% FBS + 10% DMSO
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Thawing and
Culturing Cells

1. Remove the cells from the storage container and thaw them quickly in a water bath at 37°C. Do not shake the container.
2. Remove the cells from the water bath and centrifuge at 300 x g for 3 minutes. Remove the supernatant and resuspend the cells in 15 µl of DMEM.
3. Seed the cells into a 96-well plate (15 µl per well) and incubate at 37°C for 24 hours.
4. After 24 hours, add 85 µl of DMEM to each well. The final volume should be 100 µl.
5. Incubate the cells for 72 hours at 37°C and 5% CO₂.
6. Harvest the cells using a cell scraper and collect the cells into a microcentrifuge tube.
7. Centrifuge the cells at 300 x g for 3 minutes and resuspend in 10 µl of lysis buffer.
8. Store the cells at -80°C for long-term storage.

Incubation
Atmosphere

37°C, 5% CO₂, humidified air

Flask Coating

Not required

Freezing
Procedure

For long-term storage, freeze the cells in a freezing medium and store at -80°C.

Shipping
Conditions

For shipping, the cells should be stored at -80°C.

Storage
Conditions

For long-term storage, the cells should be stored at -150°C for 196 hours.

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Sterility

The cells are provided in a sterile, sealed container. The cells are not tested for mycoplasma contamination. The cells are not tested for endotoxin contamination. The cells are not tested for viral contamination.