

Product sheet

MDA-MB-453 | 305042

Cell Line

**Description** MDA-MB-453 is a cell line derived from a primary mammary carcinoma. It is characterized by its ability to form mammary-like structures in culture. The cell line is highly tumorigenic and is used as a model for studying breast cancer biology and drug response.

**Organism** Human

**Tissue** Mammary gland

**Disease** Breast cancer

**Metastatic site** Liver, lung, brain, bone

**Synonyms** MDA-MB 453, MDA MB 453, MDA-MB453, MDAMB453, MDA-453, MDA453, MD Anderson-Metastatic Breast-453

Characteristics

**Age** 48 years

**Gender** Female

**Ethnicity** Caucasian

**Morphology** Epithelial

**Growth properties** Adherent

References

**Citation** MDA-MB-453 (ATCC CCL-453) Cytion 305042

**Biosafety level** 1

**NCBI\_TaxID** 9606

**CellSaurusAccession** CVCL\_0418

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Cell Line Information

**Receptors expressed** EGFR, HER2, FGFR3 (FGF) receptor

**Tumorigenic** Yes

Media

**Culture Medium** DMEM: DMEM:Ham's F12 (1:1) 3.1 µg/ml insulin, 2.5 µg/ml transferrin, 15 µg/ml selenium (15 µg/ml insulin, 15 µg/ml transferrin, 15 µg/ml selenium)

**Supplements** 10% FBS

**Dissociation Reagent** Trypsin

**Subculturing** Seed cells into fresh medium containing 10% FBS. Wash cells with PBS before seeding.

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

**Freeze medium** DMEM: DMEM:Ham's F12 (1:1) 3.1 µg/ml insulin, 2.5 µg/ml transferrin, 15 µg/ml selenium (15 µg/ml insulin, 15 µg/ml transferrin, 15 µg/ml selenium) + 10% DMSO

Thawing and Culturing Cells

1. Thaw cells in a 37°C water bath.
2. Dilute cells into fresh medium containing 10% FBS.
3. Seed cells into a 96-well plate (100 µl/well).
4. Incubate cells for 70% confluency.
5. Harvest cells after 15-18 hours.
6. Seed cells into a 300 µl well.
7. Incubate cells for 10 days.
8. Harvest cells for analysis.

