

MDA-MB-453 | 305042

Cell Culture

**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 cells are highly proliferative and are used for studying breast cancer biology and drug response.

**Organism** Human

**Tissue** Mammary gland

**Disease** Breast cancer

**Metastatic site** Lymph nodes, lung, liver, brain

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

Cell Characteristics

**Age** 48 days

**Gender** Female

**Ethnicity** Caucasian

**Morphology** Epithelial

**Growth properties** Adherent

Identification

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

**Biosafety level** 1

**NCBI\_TaxID** 9606

**CellosaurusAccession** CVCL\_0418

Product sheet

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Cell Line

**Receptors expressed** EGFR, HER2, FGFR3 (FGF) and others

**Tumorigenic** Yes

Media

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

**Supplements** 10% FBS

**Dissociation Reagent** Trypsin

**Subculturing** 1:3 to 1:10 in DMEM:DMEM:Ham's F12 (1:1) 3.1 µg/ml / 2.5 µg/ml (15 µg/ml) + 10% FBS

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

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

Thawing and Culturing Cells

1. Thaw cells in a 37°C water bath.
2. Add cells to a pre-warmed medium.
3. Incubate cells for 37 hours.
4. Seed cells into a 96-well plate (70% confluency).
5. Incubate cells for 15 days (8 wells).
6. Seed cells into a 300 µl well (3 wells).
7. Incubate cells for 10 days.
8. Harvest cells for analysis.

