

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 metastatic 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

Cell Line Characteristics

Age 48 days

Gender Female

Ethnicity Caucasian

Morphology Epithelial

Growth properties Adherent

Cell Line Identification

Citation MDA-MB-453 (ATCC CCL-197) Cytion 305042

Biosafety level 1

NCBI_TaxID 9606

CellosaurusAccession CVCL_0418

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Cell Line Information

Receptors expressed EGFR, HER2, IGF1R, PDGFR (FGF) R, VEGFR

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 1:2 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. Dilute cells into DMEM:DMEM:Ham's F12 (1:1) 3.1 µg/ml / 2.5 µg/ml (15 µg/ml) + 10% FBS.
3. Seed cells into a 96-well plate (37 µl/well).
4. Seed cells into a 24-well plate (70% confluency).
5. Seed cells into a 6-well plate (15 x 10⁶ cells).
6. Seed cells into a T75 flask (300 x 10⁶ cells).
7. Seed cells into a T175 flask (10 x 10⁶ cells).
8. Seed cells into a T25 flask (10 x 10⁶ cells).

