

Product sheet

MM.1S | 305304

Description MM.1S is a cell line derived from a patient with metastatic breast cancer. It is a highly proliferative, anchorage-dependent cell line that grows in suspension. The cell line is characterized by its ability to form mammospheres in the presence of insulin, transferrin, and selenium (ITS) supplements. MM.1S cells are highly tumorigenic in nude mice and are used as a model for studying breast cancer biology and drug response. The cell line is maintained in DMEM/F12 medium supplemented with 5% fetal bovine serum (FBS) and 10 ng/ml insulin, 10 ng/ml transferrin, and 5 ng/ml selenium (ITS). (GR)

Organism Human

Tissue Mammary gland

Disease Breast cancer

Synonyms 1.S, 1.S, 1.S, 1.S, 1.S

Age 45 years

Gender Female

Ethnicity Caucasian

Morphology Epithelial

Cell type Epithelial

Growth properties Growth factors: Insulin, Transferrin, Selenium; Media: DMEM/F12 + 5% FBS + ITS

Citation MM.1S (ATCC CCL-222) | 305304

Biosafety level 1

NCBI_TaxID 9606

CellosaurusAccession CVCL_8792

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Products IgA lambda

Mutational profile KRAS, p.Gly12Ala (c.35G>C) TRAF3, p.Val536_Asn545delValPheValValAlaGlnThrValValLeuGlu (c.1604-1630delTTTTTGTGTGTCCCCCCACTGACTGTTCTAGAAA)

Culture Medium RPMI 1640 2.0 2.0 NaHCO3 (820700a)

Supplements 10% FBS

Dissociation Reagent

Subculturing 15 PBS

Freeze medium (FBS) + 10% DMSO

- 1. ...
- 2. ... -150
- 3. ... 37
- 4. ... 70%
- 5. ... 15 ... 8
- 6. ... 300 x ... 3
- 7. ... 10
- 8. ...

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Incubation Atmosphere 37 \times 10^6 cells/ml in 10% FCS DMEM

Flask Coating Cell culture medium

Freezing Procedure Cells are harvested and resuspended in 10% FCS DMEM. Cells are then centrifuged at 300g for 5 min. The supernatant is removed and the cell pellet is resuspended in 10% FCS DMEM. Cells are then counted and resuspended in freezing medium (10% FCS DMEM + 10% FCS + 10% DMSO) at a concentration of 1×10^6 cells/ml. Cells are then frozen in a controlled rate freezer at $-1.5^\circ\text{C}/\text{min}$ to -80°C and stored in liquid nitrogen.

Shipping Conditions Cells are shipped in a dry ice container at -80°C .

Storage Conditions Cells are stored in liquid nitrogen at -150°C to -196°C .

/ / HLA

Sterility Cells are tested for mycoplasma contamination using the MycoSect PCR assay. Cells are also tested for endotoxin contamination using the Limulus Amebocyte Enzyme Test (LAL). Cells are found to be free of mycoplasma and endotoxin contamination.