

Product sheet

BT-474 | 300131

BT-474

Description BT-474 is a cell line derived from a 60-year-old female patient with breast cancer. It is a highly metastatic cell line that grows in suspension and is characterized by its ability to form mammospheres. The cell line is maintained in DMEM/F12 medium supplemented with 5% fetal bovine serum (FBS) and 10 ng/ml insulin-like growth factor 1 (IGF1). BT-474 cells are highly sensitive to tamoxifen and are used as a model for studying breast cancer drug resistance.

Organism Human

Tissue Mammary gland

Disease Breast cancer

Metastatic site Mammary gland

Synonyms Bt-474, BT474, BT474

BT-474

Age 60 years

Gender Female

Ethnicity Caucasian

Morphology Epithelial

Growth properties BT-474 cells are highly metastatic and form mammospheres in DMEM/F12 medium supplemented with 5% FBS and 10 ng/ml IGF1. The cells are highly sensitive to tamoxifen and are used as a model for studying breast cancer drug resistance.

BT-474

Citation BT-474 (ATCC CRL-11190) | 300131

Biosafety level 1

NCBI_TaxID 9606

CellosaurusAccession CVCL_0179

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XXXXXXXXBT-474 | 300131

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Receptors expressed XXX-2/XXX+ X XXX+ X XXX+

Isoenzymes G6PD, B, PGM3, 1, PGM1, 1, ES-D, 1, Me-2, 0, AK-1, 1, GLO-1, 1, 1, XXXX XXXX XXXX XXXXXXX: 0.0426

Tumorigenic XXXX X XXXXXXX XXXXXXX

Virus susceptibility XXXXX XXXXX XXXXXXX XXX XXXXX (RIII-MuMTV)

MSI-status XXXXX (MSS)

Mutational profile XXXXTP53

Karyotype XXXXX = 55X XXXXXXX = 50 XXX 112X XXXXXXX XXXXX XXXXXXX 58 - 59 X100 X XXXXXXX XXXXXXX XXX 3 XXXXXXX XXXXXXX

XXXXXXXXXXXX

Culture Medium DMEM: DMEM:Ham's F12 (1:1)X X 3.1 X/XXX XXXXXXX X 2.5 XXX XXXXX XXXXXXXXXX X 15 XXX XXXXX XXXXX (15 XXX XXXXX XXXXX)

Supplements XXXXX XXX XXXXX 10X FBSX X10 XXXXXXXXXX/ XXXX XXXXXXX

Doubling time 60 XXX80 XXXX

Subculturing XX XXXXX XXXXX XXXXXXX X XXXXXXX XXXXXXXXXX XXXXXXX XXXXXXXXXX PBS XXXX XXXX XXX XXXXXXXXXX XXXXXXXXXX XXXXXXXXXX XXXXXXXXXX

Seeding density 2×10^4 $\frac{cells}{cm^2}$ XXXX XXXXXXX X XXXXXXX X XXXXXXX X XXXXXXX 4 XXXX

Fluid renewal 2 XXX3 XXXX X XXXXXXX

Post-Thaw Recovery XXXXX XXXXXXX XXXXX 100% XXXXXXX XXXXX XXXXX XXXX X90%

Freeze medium XXXXX XXXXX XXXXXXXXXX XXXXXXX XXX XXX XXXX (XXX X XXX FBS) + 10% DMSO X XXX XXXXXXX XXX XXXXXXX XXXXX XXX XXXXXXX XXXXXXX

BT-474 | 300131

Thawing and Culturing Cells

1. Thaw the vial rapidly in a 37°C water bath. Do not vortex. Transfer the cells to a 15 mL centrifuge tube containing 10 mL of pre-warmed complete medium. Centrifuge at 300 × g for 3 minutes. Remove the supernatant and resuspend the cells in 10 mL of complete medium. Seed the cells into a T75 flask containing 50 mL of complete medium.
2. Incubate the cells at 37°C in a 5% CO₂ atmosphere until they reach 70-80% confluency.
3. Harvest the cells by trypsinization. Seed the cells into a T75 flask containing 50 mL of complete medium.
4. Incubate the cells at 37°C in a 5% CO₂ atmosphere until they reach 70-80% confluency.
5. Harvest the cells by trypsinization. Seed the cells into a T75 flask containing 50 mL of complete medium.
6. Incubate the cells at 37°C in a 5% CO₂ atmosphere until they reach 70-80% confluency.
7. Harvest the cells by trypsinization. Seed the cells into a T75 flask containing 50 mL of complete medium.
8. Incubate the cells at 37°C in a 5% CO₂ atmosphere until they reach 70-80% confluency.

Incubation Atmosphere

37°C, 5% CO₂

Flask Coating

None

Freezing Procedure

Resuspend cells in 1 mL of freezing medium and seed into a 1.5 mL microcentrifuge tube. Freeze at -80°C.

Shipping Conditions

Store at -80°C. Ship on dry ice.

Storage Conditions

Store at -150°C to -196°C in liquid nitrogen.

BT-474 / BT-474 / HLA

Sterility

Cells are tested for mycoplasma contamination using PCR. Cells are free of mycoplasma contamination.

XXXXXXXXBT-474 | 300131

XXXXXXXX HLA

A*: '01:01:01, '29:02:01

B*: '07:02:01, '44:03:01

C*: '07:02:01, '16:01:01

DRB1*: '04:01, '15:01

DQA1*: '01:02:01, '03:03:01

DQB1*: '06:02:01

DPB1*: '04:01:01:01XXXXXXXX05:01:01:01X

E: '01:01:01, '01:03:02