

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 culture. The cell line is characterized by its ability to form colonies in soft agar and its high tumorigenicity in nude mice. The cell line is maintained in DMEM supplemented with 10% fetal bovine serum (FBS) and 1% penicillin-streptomycin. The cell line is a derivative of BT-20 and is characterized by its high metastatic potential and its ability to form colonies in soft agar.

**Organism** Human

**Tissue** Breast

**Disease** Breast cancer

**Metastatic site** Lung, Liver, Bone

**Synonyms** Bt-474, BT474, BT474

BT-474

**Age** 60 years

**Gender** Female

**Ethnicity** Caucasian

**Morphology** Epithelial

**Growth properties** The cell line is highly metastatic and forms colonies in soft agar. It is characterized by its ability to form colonies in soft agar and its high tumorigenicity in nude mice. The cell line is maintained in DMEM supplemented with 10% fetal bovine serum (FBS) and 1% penicillin-streptomycin. The cell line is a derivative of BT-20 and is characterized by its high metastatic potential and its ability to form colonies in soft agar.

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**Citation** BT-474 (ATCC CRL-2939) | 300131

**Biosafety level** 1

**NCBI\_TaxID** 9606

**CellosaurusAccession** CVCL\_0179



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### Thawing and Culturing Cells

1. Thaw the vial rapidly in a 37°C water bath. Do not vortex. Transfer the cells to a pre-warmed medium.
2. Centrifuge at 300 x g for 3 minutes. Resuspend in 300 µl of medium.
3. Seed into a 24-well plate (1.5 x 10<sup>6</sup> cells/well) or a 96-well plate (3.7 x 10<sup>5</sup> cells/well).
4. Incubate at 37°C in 5% CO<sub>2</sub>. Monitor cell growth and confluency (70% confluency).
5. Harvest cells at 15 days post-infection. Use a cell counter to determine cell number.
6. Seed into a 24-well plate (1.5 x 10<sup>6</sup> cells/well) or a 96-well plate (3.7 x 10<sup>5</sup> cells/well).
7. Incubate at 37°C in 5% CO<sub>2</sub>. Harvest cells at 10 days post-infection.
8. Harvest cells at 10 days post-infection. Use a cell counter to determine cell number.

### Incubation Atmosphere

37°C, 5% CO<sub>2</sub>

### Flask Coating

Not required

### Freezing Procedure

Resuspend cells in freezing medium and store at -80°C.

### Shipping Conditions

Store at -80°C during shipping.

### Storage Conditions

Store at -150°C to -196°C.

HLA

### Sterility

Cells are provided in a sterile, cryoprotected medium. PCR testing is available.

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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