

BT-549 | 300132

BT-549

Description	BT-549 is a human breast cancer cell line, established from a 72-year-old female patient with metastatic disease. The cell line is characterized by its high growth rate and its ability to form mammary gland-like structures in vivo. BT-549 is highly sensitive to trastuzumab (Herceptin), a monoclonal antibody that targets the HER2 receptor. BT-549 cells are highly tumorigenic and can form xenografts in immunodeficient mice. BT-549 cells are also highly sensitive to trastuzumab, a monoclonal antibody that targets the HER2 receptor.
-------------	--

Organism	Human
Tissue	Breast, Mammary gland
Disease	Metastatic breast cancer
Metastatic site	Brain
Synonyms	BT 549, BT.549, BT549

Characteristics

Age	72 years
Gender	Female
Ethnicity	White
Morphology	Epithelial
Growth properties	High growth rate, highly tumorigenic

References and Safety

Citation	BT-549 (ATCC CCL-221) Cytion 300132
Biosafety level	1
NCBI_TaxID	9606

Product sheet

BT-549 | 300132

CellosaurusAccession CVCL_1092

NCBI Taxonomy ID: 1000000000

Isoenzymes G6PD, B, PGM1, 2, PGM3, 1, ES-D, 1, Me-2, 1, AK-1, 1, GLO-1, 1-2, ~~LDH~~ 0.0048

Mutational profile TP53

Karyotype = 74, = 53 140, ~~normal karyotype~~

ATCC

Culture Medium DMEM, w: 4.5 g/L ~~glucose~~, w: 4 mM L-~~glutamine~~, w: 3.7 g/L NaHCO3, w: 1.0 mM ~~beta-mercaptoethanol~~ (~~growth factor~~ Cytion 820300a)

Supplements 10% FBS

Dissociation Reagent ~~trypsin~~

Subculturing ~~cells are grown in 25 cm2 flasks in DMEM supplemented with 10% FBS. Cells are passaged by trypsinization into T25 flasks, 3-5 x 10^5 cells per flask. Cells are grown in DMEM supplemented with 10% FBS. Cells are passaged by trypsinization into T25 flasks, 3-5 x 10^5 cells per flask.~~

Seeding density 1 x 10^4 ~~cells per flask~~ 4 ~~flasks~~

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

Post-Thaw Recovery ~~4-5 days~~ 24 ~~hours~~

Freeze medium ~~cells are frozen in DMEM supplemented with 10% FBS and 10% DMSO~~ (FBS) + 10% DMSO ~~cells are frozen in DMEM supplemented with 10% FBS and 10% DMSO~~

BT-549 | 300132

Thawing and
Culturing Cells

1. 将细胞悬液缓慢加入含有培养基的细胞培养瓶中，轻轻混匀，然后将培养瓶置于37°C CO₂培养箱中培养。
2. 将细胞悬液加入含有培养基的细胞培养瓶中，轻轻混匀，然后将培养瓶置于-150°C 液氮中冷冻，然后将细胞悬液放入液氮中冷冻，然后将细胞悬液放入液氮中冷冻。
3. 将细胞悬液加入含有培养基的细胞培养瓶中，轻轻混匀，然后将培养瓶置于37°C CO₂培养箱中培养。
4. 将细胞悬液加入含有培养基的细胞培养瓶中，轻轻混匀，然后将培养瓶置于70% 乙醇中冷冻。
5. 将细胞悬液加入含有培养基的细胞培养瓶中，轻轻混匀，然后将培养瓶置于15 μl 8 μl 的细胞悬液中。
6. 将细胞悬液加入含有培养基的细胞培养瓶中，轻轻混匀，然后将培养瓶置于300 x g 3 分钟的离心。
7. 将细胞悬液加入含有培养基的细胞培养瓶中，轻轻混匀，然后将培养瓶置于10 μl 的细胞悬液中。
8. 将细胞悬液加入含有培养基的细胞培养瓶中，轻轻混匀，然后将培养瓶置于-150°C 液氮中冷冻。

Incubation
Atmosphere

37°C, 5% CO₂, 饱和湿度

Flask Coating

无涂层

Freezing
Procedure

将细胞悬液加入含有培养基的细胞培养瓶中，轻轻混匀，然后将培养瓶置于-78°C 液氮中冷冻。

Shipping
Conditions

将细胞悬液加入含有培养基的细胞培养瓶中，轻轻混匀，然后将培养瓶置于-78°C 液氮中冷冻。

Storage
Conditions

将细胞悬液加入含有培养基的细胞培养瓶中，轻轻混匀，然后将培养瓶置于-150°C 196 液氮中冷冻。

Sterility

本产品经过严格的灭菌处理，符合PCR 试剂的要求。

本产品经过严格的灭菌处理，符合PCR 试剂的要求。

BT-549 | 300132

HLA

A*: '01:01:01, '02:01:01
B*: 15:17:01, 55:01:01
C*: '03:03:01, '07:01:02
DRB1*: 11:01:01, 13:02:01
DQA1*: 01:02:01, 05:09
DQB1*: 03:01:01, 06:04:01
DPB1*: '02:01:02, '04:01:01
E: 01:01:01