

Cell BV-173 | 300133

General information

Description	Cell line BV-173 (CML) (Ph+), derived from a patient with chronic myeloid leukemia (CML) in the chronic phase. The cell line is characterized by the presence of the BCR-ABL1 fusion gene and is used for studying the pathogenesis of CML and for testing of novel therapies. The cell line is maintained in RPMI 1640 medium supplemented with 10% fetal bovine serum (FBS) and 1% penicillin-streptomycin (P/S). The cell line is characterized by a high growth rate and is suitable for large-scale experiments.
Organism	Human
Tissue	Leukemia
Disease	Chronic myeloid leukemia (CML)

Cell characteristics

Age	45 years
Gender	Male
Ethnicity	Chinese
Cell type	Leukemia cells
Growth properties	Adherent

Cell line identification

Citation	BV-173 (CML) Cytion 300133
Biosafety level	1
NCBI_TaxID	9606
CellosaurusAccession	CVCL_0181

Reverse transcriptase assay

Reverse transcriptase	RT-PCR (ELISA)
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**Thawing and
Culturing Cells**

1. Thaw the vial quickly in a water bath at 37°C, and transfer the cells to a pre-warmed tube or flask.
2. Add 10 ml of complete medium to the tube or flask, and incubate at 37°C for 24 hours.
3. After 24 hours, the cells should be visible. If not, add another 10 ml of complete medium.
4. After 48 hours, the cells should be visible. If not, add another 10 ml of complete medium.
5. After 72 hours, the cells should be visible. If not, add another 10 ml of complete medium.
6. After 96 hours, the cells should be visible. If not, add another 10 ml of complete medium.
7. After 120 hours, the cells should be visible. If not, add another 10 ml of complete medium.
8. After 144 hours, the cells should be visible. If not, add another 10 ml of complete medium.

**Incubation
Atmosphere**

37°C, 5% CO₂, humidified air

Flask Coating

Not required

**Freezing
Procedure**

Cells can be frozen in a cryovial with 1 ml of complete medium at -78°C.

**Shipping
Conditions**

Cells can be shipped at -78°C.

**Storage
Conditions**

Cells can be stored at -150°C for 196 weeks.

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Sterility

Cells are sterile and free of mycoplasmas. PCR screening has been performed and no contamination was detected.

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XXXXXX HLA

A*: '02:01:01, '30:01:01
B*: 15:10:01, 18:01:01
C*: '03:04:02, '12:03:01
DRB1*: 13:02:01, 16:01:01
DQA1*: '01:02:01, '01:02:02
DQB1*: '05:02:01, '06:03:01
DPB1*: '01:01:01, '02:01:02
E: '01:01:01, '01:03