

Product sheet

LS180 | 305823

Cell Line

**Description** LS180 is a human colorectal adenocarcinoma cell line. It is derived from a 58-year-old male patient with a primary tumor in the sigmoid colon. The cell line is characterized by its ability to grow in soft agar and its sensitivity to cisplatin. LS180 cells express CEA, CD44, and CD133. The cell line is maintained in DMEM/F12 supplemented with 10% fetal bovine serum (FBS) and 100 ng/ml insulin-like growth factor-1 (IGF-1). LS180 cells are used for various studies, including drug screening and gene expression analysis.

**Organism** Human

**Tissue** Colon

**Disease** Colorectal adenocarcinoma

**Synonyms** LS-180, LS 180, LS180-180

Cell Line Characteristics

**Age** 58 years

**Gender** Male

**Ethnicity** Caucasian

**Cell type** Adenocarcinoma

**Growth properties** Soft agar dependent

Cell Line Identification

**Citation** LS180 (Cytion 305823)

**Biosafety level** 1

**NCBI\_TaxID** 9606

**CellosaurusAccession** CVCL\_0397

Cell Line Source

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**Antigen expression** 3  $\times$   $10^6$  cells; Homo sapiens, HLA A2, B13, B50; O

**Isoenzymes** ADA, 1 ES-D, 1 G6PD, B PEP-D, 1 PGD, A PGM1, 1 PGM3, 2

**Tumorigenic** , ,

**Mutational profile** ACVR2A, p.Lys437Argfs\*5 (c.1310delA), CTNNB1, p.Ser45Phe (c.134C>T), PIK3CA, p.His1047Arg (c.3140A>G), TGFBR2, p.Lys128Serfs\*35 (c.383delA),

**Karyotype** = 45; = 42 47.

**LS180**

**Culture Medium** EMEM (MEM Eagle), w: 2 mM L-Glutamine, w: 2.2 g/L NaHCO<sub>3</sub>, w: EBSS (Cytion 820100a)

**Supplements** 10% FBS

**Dissociation Reagent** ,

**Doubling time** 72

**Freeze medium** (FBS) + 10% DMSO

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Thawing and Culturing Cells

1. Thaw the cells quickly in a water bath at 37°C. Do not allow the cells to reach room temperature. After thawing, centrifuge at 300 x g for 3 minutes. Resuspend the cells in 10 ml of complete medium. Seed the cells into a T25 flask containing 10 ml of complete medium. Incubate the cells at 37°C in 5% CO<sub>2</sub>.
2. After 24 hours, check the cells for confluency. If the cells are not confluent, add more complete medium to reach a total volume of 15 ml.
3. Once the cells are confluent, they can be used for experiments or passaged into a T75 flask. Seed the cells into a T75 flask containing 150 ml of complete medium. Incubate the cells at 37°C in 5% CO<sub>2</sub>.
4. When the cells are confluent, they can be passaged into a T175 flask. Seed the cells into a T175 flask containing 300 ml of complete medium. Incubate the cells at 37°C in 5% CO<sub>2</sub>.
5. The cells can be passaged into a T25 flask. Seed the cells into a T25 flask containing 10 ml of complete medium. Incubate the cells at 37°C in 5% CO<sub>2</sub>.
6. The cells can be passaged into a T75 flask. Seed the cells into a T75 flask containing 150 ml of complete medium. Incubate the cells at 37°C in 5% CO<sub>2</sub>.
7. The cells can be passaged into a T175 flask. Seed the cells into a T175 flask containing 300 ml of complete medium. Incubate the cells at 37°C in 5% CO<sub>2</sub>.
8. The cells can be passaged into a T25 flask. Seed the cells into a T25 flask containing 10 ml of complete medium. Incubate the cells at 37°C in 5% CO<sub>2</sub>.

**Incubation Atmosphere** 37°C, 5% CO<sub>2</sub>, humidified

**Shipping Conditions** Store at -80°C

**Storage Conditions** Store at -150°C for 196 days

HLA

**Sterility** PCR confirmed