

LS180 | 305823

General information

Description	LS180 is a human colorectal adenocarcinoma cell line. It was established from a 58-year-old male patient with a primary tumor in the sigmoid colon. The cells are characterized by their ability to form colonies in soft agar and their sensitivity to 5-fluorouracil. LS180 cells are derived from a CEA-positive, Dukes' B-stage tumor. The cell line is maintained in RPMI 1640 medium supplemented with 10% fetal bovine serum (FBS). LS180 cells are a good model for studying the biology of colorectal cancer and for testing new drugs.
Organism	Human
Tissue	Colorectal adenocarcinoma
Disease	Colorectal cancer
Synonyms	LS-180, LS 180, LS180, LS180-180

Cell characteristics

Age	58 years
Gender	Male
Ethnicity	White
Cell type	Adenocarcinoma
Growth properties	Epithelial

Cell culture conditions

Citation	LS180 (Cytion 305823)
Biosafety level	1
NCBI_TaxID	9606
CellosaurusAccession	CVCL_0397

Cell culture media and supplements

Product sheet

LS180 | 305823

Antigen expression 3 $\times$ 10^6 cells 10^6 cells 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 Yes, Yes, 10^6 cells 10^6 cells

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 $45, X, X, -X, -Y$ = 45; $42, X, X, -X, -Y$ = 42

Culture Medium EMEM (MEM Eagle), w: 2 mM L-Glutamine, w: 2.2 g/L NaHCO₃, w: EBSS (Cytion 820100a)

Supplements 10% FBS

Dissociation Reagent

Doubling time 72 h

Freeze medium 10% FBS + 10% DMSO

LS180 | 305823

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，然后将培养瓶放入37°C孵育箱中孵育24小时。
2. 将细胞悬液加入含有培养基的细胞培养瓶中，轻轻混匀，然后将培养瓶放入-150°C液氮中冷冻24小时。
3. 将细胞悬液加入含有培养基的细胞培养瓶中，轻轻混匀，然后将培养瓶放入37°C孵育箱中孵育24小时。
4. 将细胞悬液加入含有培养基的细胞培养瓶中，轻轻混匀，然后将培养瓶放入70%乙醇中冷冻24小时。
5. 将细胞悬液加入含有培养基的细胞培养瓶中，轻轻混匀，然后将培养瓶放入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，然后将培养瓶放入300 x g 3 μl 3 μl 的细胞悬液中。
7. 将细胞悬液加入含有培养基的细胞培养瓶中，轻轻混匀，然后将培养瓶放入10 μl 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，然后将培养瓶放入T2 10 μl 10 μl 的细胞悬液中。

Incubation
Atmosphere

37°C, 5% CO₂, 饱和湿度

Flask Coating

无涂层

Shipping
Conditions

细胞悬液在-78°C下运输，细胞悬液在-78°C下运输，细胞悬液在-78°C下运输。

Storage
Conditions

细胞悬液在-150°C下储存，细胞悬液在-150°C下储存，细胞悬液在-150°C下储存。

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Sterility

细胞悬液在PCR管中运输，细胞悬液在PCR管中运输，细胞悬液在PCR管中运输。