

SW-1116 | 300348

General information

Description	Human colon carcinoma cell line established from a patient with colorectal cancer (Leibovitz et al. 1976). The cell line is derived from a primary tumor and is characterized by its ability to grow in soft agar and to form xenografts in nude mice. CC-5 & CC-6 are the two main cell lines derived from this primary tumor.
Organism	Human
Tissue	Colon
Disease	Colorectal cancer
Synonyms	SW1116, SW 1116

Cell characteristics

Age	73 years
Gender	Male
Ethnicity	White
Morphology	Epithelial cells
Growth properties	Adherent

Identification and documentation

Citation	SW-1116 (Cytion 300348)
Biosafety level	1
NCBI_TaxID	9606
CellosaurusAccession	CVCL_0544

Antigen expression and detection

Protein expression	CEA positive
--------------------	--------------

Product sheet

SW-1116 | 300348

Isoenzymes G6PD, B, PGM1, 1, PGM3, 1-2, 6PGD, A, ES-D, 1, PEP-D, 1

Oncogenes Myc +, myb +, ras +, fos +, sis +, p53 +, abl -, ros -, src -

Tumorigenic Yes, tumorigenic in nude mice

Reverse transcriptase Negative

Products CEA (CEA) 2654 ng/10⁶ cells/10⁵ cells, CEA

Mutational profile SW-1116 colorectal adenocarcinoma cell line 12 Kras: GGT(Wt Gly) >GCT(Ala)

Media

Culture Medium DMEM:Ham's F12 (1:1), w: 3.1 g/L D-glucose, w: 2.5 mM L-glutamine, w: 15 mM HEPES, w: 0.5 mM sodium pyruvate, w: 1.2 g/L NaHCO₃ (820400a)

Supplements 10% FBS

Dissociation Reagent Trypsin

Subculturing Cells are grown in DMEM:Ham's F12 (1:1) supplemented with 10% FBS. Cells are seeded in T25 flasks, 3-5 x 10⁵ cells per flask. Cells are grown to confluence and then split into 3 flasks. Cells are grown to confluence and then split into 3 flasks.

Split ratio 1:3 or 1:6

Fluid renewal 1 x 2 times per week

Freeze medium DMEM:Ham's F12 (1:1), w: 3.1 g/L D-glucose, w: 2.5 mM L-glutamine, w: 15 mM HEPES, w: 0.5 mM sodium pyruvate, w: 1.2 g/L NaHCO₃ (820400a) + 10% DMSO + 10% FBS

SW-1116 | 300348

Thawing and
Culturing Cells

1. 将冻存管放入 37°C 水浴中快速解冻，避免反复冻融。解冻后将细胞悬液转移至离心管中，离心（1500g，5min）。弃去上清液，加入适量培养基，轻轻混匀。
2. 将细胞悬液接种至含有培养基的培养瓶中。轻轻晃动培养瓶，使细胞均匀分布。将培养瓶置于 37°C 培养箱中培养。
3. 待细胞贴壁后，更换新鲜培养基。继续培养至细胞达到 70% 汇合度。
4. 将细胞悬液接种至含有培养基的培养瓶中。轻轻晃动培养瓶，使细胞均匀分布。将培养瓶置于 37°C 培养箱中培养。
5. 待细胞贴壁后，更换新鲜培养基。继续培养至细胞达到 70% 汇合度。
6. 将细胞悬液接种至含有培养基的培养瓶中。轻轻晃动培养瓶，使细胞均匀分布。将培养瓶置于 37°C 培养箱中培养。
7. 待细胞贴壁后，更换新鲜培养基。继续培养至细胞达到 70% 汇合度。
8. 将细胞悬液接种至含有培养基的培养瓶中。轻轻晃动培养瓶，使细胞均匀分布。将培养瓶置于 37°C 培养箱中培养。

Incubation
Atmosphere

37°C, 5% CO₂, 饱和湿度

Flask Coating

无需涂层

Freezing
Procedure

将细胞悬液接种至含有培养基的培养瓶中。轻轻晃动培养瓶，使细胞均匀分布。将培养瓶置于 37°C 培养箱中培养。

Shipping
Conditions

将细胞悬液接种至含有培养基的培养瓶中。轻轻晃动培养瓶，使细胞均匀分布。将培养瓶置于 37°C 培养箱中培养。

Storage
Conditions

将细胞悬液接种至含有培养基的培养瓶中。轻轻晃动培养瓶，使细胞均匀分布。将培养瓶置于 37°C 培养箱中培养。

SW-1116 | 300348

Sterility

本产品经过严格的灭菌处理，确保无菌。本产品适用于 PCR 扩增、基因测序、细胞培养等实验。

XXXXX SW-1116 | 300348

XXXXXX STR

Amelogenin: x,x
CSF1PO: 10,11
D13S317: 11,14
D16S539: 9,12
D5S818: 11,12
D7S820: 12
TH01: 6
TPOX: 8,11
vWA: 14,19
D3S1358: 16
D21S11: 28,29
D18S51: 13
Penta E: 10,12
Penta D: 11,13
D8S1179: 10,11
FGA: 21,22

XXXXXX HLA

A*: 23:01:01
B*: '44:03:01
C*: 04:01:01
DRB1*: 11:01:01
DQA1*: 05:05:01
DQB1*: 03:01:01
DPB1*: 04:02:01
E: 01:01:01