

### Cell Line HSC-3 | 305312

#### General Information

**Description** HSC-3 is a human colon adenocarcinoma cell line (OSCC) derived from a 64-year-old male patient with a primary tumor in the sigmoid colon. The cell line is characterized by its ability to grow in vitro and in vivo, and its sensitivity to various chemotherapeutic agents. HSC-3 cells are highly proliferative and form well-defined colonies in culture. The cell line is maintained in DMEM/F12 medium supplemented with 10% fetal bovine serum (FBS). HSC-3 cells are highly sensitive to 5-fluorouracil (5-FU) and irinotecan. HSC-3 cells are highly sensitive to 5-FU and irinotecan.

**Organism** Human

**Tissue** Colon

**Disease** Colon adenocarcinoma

**Metastatic site** Liver, Lung, Bone

**Synonyms** HSC 3, HSC3

#### Source Information

**Age** 64 years

**Gender** Male

**Ethnicity** Caucasian

**Growth properties** Adherent

#### Characterization

**Citation** HSC-3 (Cell Line) Cytion 305312

**Biosafety level** 1

**NCBI\_TaxID** 9606

**CellosaurusAccession** CVCL\_1288

#### Additional Information

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**Mutational profile** CDKN2A, p.Glu120Ter (c.358G>T), PIK3CA, p.Glu545Gly (c.1634A>G); TERT, c.1-124C>T, p.Lys305fs (c.912\_913insTAAG)

**Cell Line**

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

**Supplements** 10% FBS 1% NEAA

**Dissociation Reagent** Trypsin

**Subculturing** Passage 1: 1:3-5 into MEM (MEM Eagle) + 2 mM L-Glutamine + 2.2 g/L NaHCO3 + EBSS + 10% FBS + 1% NEAA. Passage 2: 1:3-5 into MEM (MEM Eagle) + 2 mM L-Glutamine + 2.2 g/L NaHCO3 + EBSS + 10% FBS + 1% NEAA.

**Freeze medium** EMEM (MEM Eagle) + 2 mM L-Glutamine + 2.2 g/L NaHCO3 + EBSS + 10% FBS + 10% DMSO

- Thawing and Culturing Cells**
1. Thaw cells rapidly in a 37°C water bath. Transfer cells to a 15 mL centrifuge tube containing 10 mL of pre-warmed complete medium.
  2. Centrifuge cells at 300 x g for 3 minutes. Remove the supernatant and resuspend the cell pellet in 10 mL of pre-warmed complete medium.
  3. Seed cells into a T25 flask containing 37 mL of pre-warmed complete medium.
  4. Seed cells into a T25 flask containing 37 mL of pre-warmed complete medium. Seed density: 70% confluence.
  5. Seed cells into a T25 flask containing 37 mL of pre-warmed complete medium. Seed density: 15 x 10^4 cells.
  6. Seed cells into a T25 flask containing 37 mL of pre-warmed complete medium. Seed density: 300 x g for 3 minutes.
  7. Seed cells into a T25 flask containing 37 mL of pre-warmed complete medium. Seed density: 10 x 10^4 cells.
  8. Seed cells into a T25 flask containing 37 mL of pre-warmed complete medium. Seed density: 10 x 10^4 cells.

**Incubation Atmosphere** 37°C, 5% CO2

**Flask Coating** None

