

Product sheet

Colo-94H | 300161

General Information

<b>Description</b>	Colo-94H is a human colorectal adenocarcinoma cell line. It is derived from a 70-year-old male patient with a primary tumor in the sigmoid colon. The cell line is characterized by its ability to grow in suspension and its high tumorigenicity in nude mice. It is commonly used in research related to colorectal cancer biology and drug development.
<b>Organism</b>	Human
<b>Tissue</b>	Colorectal adenocarcinoma
<b>Disease</b>	Colorectal adenocarcinoma
<b>Synonyms</b>	COLO-94H, COLO 94H, COLO94H

Cell Characteristics

<b>Age</b>	70 years
<b>Gender</b>	Male
<b>Ethnicity</b>	Not specified
<b>Morphology</b>	Epithelial cells
<b>Growth properties</b>	Adherent

Identification and Safety

<b>Citation</b>	COLO-94H (ATCC CCL-222)   Cytion 300161
<b>Biosafety level</b>	1
<b>NCBI_TaxID</b>	9606
<b>CellosaurusAccession</b>	CVCL_4573

Additional Information

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**Tumorigenic** Yes, in vivo and in vitro

**Reverse transcriptase** No

**Products** 8, 18, 19

**Mutational profile** COLO-94H 12 Kras: GGT(Wt Gly) >GAT(Asp)

Characteristics

**Culture Medium** DMEM:Ham's F12 (1:1), w: 3.1 g/L 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** 1:3 to 1:10 in DMEM:Ham's F12 (1:1) + 10% FBS, 1:3 to 1:10 in DMEM:Ham's F12 (1:1) + 10% FBS, 1:3 to 1:10 in DMEM:Ham's F12 (1:1) + 10% FBS

**Seeding density** 1 x 10<sup>4</sup> cells/cm<sup>2</sup>

**Fluid renewal** 1:2

**Post-Thaw Recovery** 24 hours

**Freeze medium** DMEM:Ham's F12 (1:1) + 10% FBS + 10% DMSO

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**Thawing and Culturing Cells**

1. Thaw the vial rapidly in a water bath at 37°C. Do not allow the cells to reach room temperature. Transfer the cells to a pre-warmed medium.
2. Seed the cells into a pre-warmed flask containing 10-15 mL of medium. Incubate at 37°C with 5% CO<sub>2</sub>.
3. Monitor the cells for attachment and growth. Change the medium after 24-48 hours.
4. Once the cells are established, they can be passaged into fresh medium.
5. For long-term storage, harvest the cells and freeze them in a cryoprotective medium.
6. Thaw the cells and seed them into a new flask.
7. Monitor the cells for attachment and growth.
8. Once the cells are established, they can be passaged into fresh medium.

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

**Flask Coating** Cell culture medium

**Freezing Procedure** Harvest cells and freeze in cryoprotective medium at -80°C.

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

**Storage Conditions** Store at -150°C for up to 196 months.

**Genotype / Phenotype / HLA**

**Sterility** The cells are free of mycoplasmas and other contaminants. PCR screening is performed.

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██████ HLA

**A\***: 02:01:01

**B\***: 15:01:01

**C\***: 03:04:01

**DRB1\***: 04:01:01

**DQA1\***: 03:01:01

**DQB1\***: 03:02:01

**DPB1\***: 04:02:01

**E**: 01:03:02