

Product sheet

Colo-94H | 300161

Colo-94H

Description
Colo-94H is a cell line derived from a human colon adenocarcinoma. It is characterized by its ability to grow in suspension and its sensitivity to various chemotherapeutic agents. The cell line is maintained in DMEM/F12 medium supplemented with 10% fetal bovine serum (FBS) and 100 ng/ml insulin-like growth factor 1 (IGF1). It is a well-established model for studying colorectal cancer biology and drug response.

Organism Human

Tissue Colon

Disease Colorectal adenocarcinoma

Synonyms COLO-94H, COLO 94H, COLO94H

Characteristics

Age 70 years

Gender Male

Ethnicity Caucasian

Morphology Epithelial cells

Growth properties Adherent

References

Citation COLO-94H (Cytion 300161)

Biosafety level 1

NCBI_TaxID 9606

CellosaurusAccession CVCL_4573

Additional information

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Tumorigenic	Yes, tumorigenic in mice
Reverse transcriptase	None
Products	Cell lines 8, 18, 19
Mutational profile	Colo-94H: KRAS G12V, TP53 R175H, APC R1463G, BRAF V600E, PIK3CA H1047R, PTEN R130H, CTNNB1 S45F, FBXW7 R505H, GGT(Wt Gly) >GAT(Asp)
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 beta-mercaptoethanol, w: 1.2 g/L NaHCO3 (820400a)
Supplements	10% FBS
Dissociation Reagent	None
Subculturing	Cells are grown in DMEM:Ham's F12 (1:1) supplemented with 10% FBS. For subculturing, cells are trypsinized and resuspended in DMEM:Ham's F12 (1:1) supplemented with 10% FBS. Cells are seeded into T25 flasks at 1 x 10^4 cells per flask. Cells are grown for 3-5 days in 10% FBS. Cells are then seeded into 96-well plates at 1 x 10^4 cells per well. Cells are grown for 24 hours in 10% FBS.
Seeding density	1 x 10^4 cells/well
Fluid renewal	1 x 2 days
Post-Thaw Recovery	Cells are thawed in a 37°C water bath and resuspended in DMEM:Ham's F12 (1:1) supplemented with 10% FBS. Cells are seeded into T25 flasks at 1 x 10^4 cells per flask. Cells are grown for 24 hours in 10% FBS.
Freeze medium	DMEM:Ham's F12 (1:1), 10% FBS, 10% DMSO

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Thawing and Culturing Cells

1. Thaw the cells in a water bath at 37°C. Do not shake the vial. Transfer the cells to a pre-warmed medium.
2. Centrifuge the cells at 300 x g for 3 minutes. Resuspend the cells in 15 ml of pre-warmed medium.
3. Seed the cells into a T25 flask containing 15 ml of pre-warmed medium. The seeding density is approximately 1.5 x 10⁶ cells per flask.
4. Incubate the cells at 37°C with 5% CO₂ in a humidified atmosphere. The cells should reach 70% confluency within 24-48 hours.
5. Once the cells are confluent, they can be used for experiments or passaged into new flasks.
6. For passaging, trypsinize the cells and seed them into a new T25 flask with 15 ml of pre-warmed medium.
7. The cells should reach 70% confluency again within 24-48 hours.
8. The cells are now ready for use in experiments or further passaging.

Incubation Atmosphere 37°C, 5% CO₂, humidified

Flask Coating No

Freezing Procedure Freeze the cells in a freezing medium and store at -80°C.

Shipping Conditions Ship the cells at -80°C.

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

Colo-94H / HLA

Sterility

The cells are provided as a sterile suspension in a PCR tube.

The cells are not tested for mycoplasma contamination.

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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