

COLO-320 | 305315

Cell Line

Description	COLO-320 is a cell line derived from a human colon adenocarcinoma. It is characterized by its ability to form colonies in soft agar and its resistance to multidrug resistance (MDR). The cell line is maintained in DMEM/F12 medium supplemented with 10% fetal bovine serum (FBS) and 10% insulin-like growth factor (IGF) I. The cell line is highly tumorigenic and is used for studying the biology of colorectal cancer and for testing new drugs.
Organism	Human
Tissue	Colon
Disease	Colorectal adenocarcinoma
Synonyms	Colo-320, Colo 320, COLO #320, COLO320, Colo320, CoLo320, Co320, COLO 320F, Colorado 320, COLO 320

Cell Line Properties

Age	55 years
Gender	Male
Ethnicity	White
Growth properties	Highly tumorigenic, forms colonies in soft agar, resistant to MDR

Cell Line Identification

Citation	COLO-320 (Cytion: 305315)
Biosafety level	1
NCBI_TaxID	9606
CellosaurusAccession	CVCL_1989

Cell Line Authentication

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Mutational profile TP53, p.Arg248Trp (c.742C>T)

Culture Medium RPMI 1640, w: 2.0 mM , w: 2.0 g/L NaHCO₃ (Cytion 820700a)

Supplements 10% FBS

Dissociation Reagent

Seeding density $2-4 \times 10^4$ cells/cm²

Fluid renewal 2-3 times per week

Freeze medium FBS, DMSO (FBS) + 10% DMSO

Thawing and Culturing Cells

1. Thaw cells rapidly in a 37°C water bath.
2. Centrifuge cells at 300 x g for 3 minutes.
3. Resuspend cells in 15 mL of complete medium.
4. Seed cells into a T25 flask at a density of 1.5 x 10⁵ cells/cm².
5. Incubate cells in a humidified 5% CO₂ incubator at 37°C.
6. Monitor cell growth and confluency.
7. Pass cells when they reach 70-80% confluency.
8. Store cells in liquid nitrogen for long-term storage.

Incubation Atmosphere 37°C, 5% CO₂

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Shipping
Conditions

COLO-320 is a cell line that is sensitive to freezing. It should be stored at -78°C.

Storage
Conditions

COLO-320 should be stored at -150 to -196 °C in liquid nitrogen.

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Sterility

COLO-320 is a cell line that is sensitive to freezing. It should be stored at -78°C. COLO-320 is a cell line that is sensitive to freezing. It should be stored at -78°C.