

Colo-320HSR | 305271

General information

Description	Colo-320HSR is a human colorectal adenocarcinoma cell line. It is derived from a 55-year-old male patient with a primary tumor in the sigmoid colon. The cell line is characterized by its ability to form colonies in soft agar and its sensitivity to 5-fluorouracil. It is a well-established model for studying colorectal cancer biology and drug response.
Organism	Human
Tissue	Colorectal adenocarcinoma
Disease	Colorectal cancer
Synonyms	COLO320 HSR, COLO 320HSR, COLO 320 HSR

Cell characteristics

Age	55 years
Gender	Male
Ethnicity	German
Morphology	Epithelial cells
Growth properties	Adherent, forming colonies in soft agar

Identification and authentication

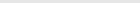
Citation	Colo-320HSR (ATCC CCL-221) Cytion 305271
Biosafety level	1
NCBI_TaxID	9606
CellosaurusAccession	CVCL_1989

Additional information

Tumorigenic 

Culture Medium	RPMI 1640, w: 2.0 mM β -mercaptoethanol, w: 2.0 g/L NaHCO ₃ (Sigma), 10% Cytion 820700a
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Reagent	Concentration	Volume	Final Concentration
Dissociation	100 μg/ml	100 μl	100 μg/ml
Reagent	100 μg/ml	100 μl	100 μg/ml

Fluid renewal 

Thawing and Culturing Cells

1. 取出冻存管，迅速放入冰水混合物中，轻轻摇晃，直至冻存管完全融化，取出并擦干表面水分。
2. 将冻存管中的细胞悬液转移到含有 1 mL 完全培养基的离心管中，在 1500 rpm 离心 5 分钟，弃去上清液。
3. 加入 1 mL 完全培养基，轻轻混匀，将细胞悬液接种到含有 10 mL 完全培养基的 25 cm² 细胞培养瓶中。
4. 将培养瓶放入 37°C 培养箱中，在 5% CO₂ 条件下培养。待细胞贴壁后，更换新鲜完全培养基。
5. 待细胞贴壁后，加入 1 mL 完全培养基，轻轻混匀，将细胞悬液接种到含有 10 mL 完全培养基的 25 cm² 细胞培养瓶中。
6. 将培养瓶放入 37°C 培养箱中，在 5% CO₂ 条件下培养。待细胞贴壁后，更换新鲜完全培养基。
7. 待细胞贴壁后，加入 1 mL 完全培养基，轻轻混匀，将细胞悬液接种到含有 10 mL 完全培养基的 25 cm² 细胞培养瓶中。
8. 将培养瓶放入 37°C 培养箱中，在 5% CO₂ 条件下培养。待细胞贴壁后，更换新鲜完全培养基。

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Incubation Atmosphere 37°C, 5%_{CO2}, humidified

Flask Coating none

Freezing Procedure Cells are seeded into 25 cm² flasks and grown to confluence. Cells are then trypsinized and resuspended in freezing medium (DMEM, 10% FBS, 10% DMSO). The cell suspension is then aliquoted into 1 mL vials and frozen at -78°C.

Shipping Conditions Cells are shipped on dry ice at -78°C.

Storage Conditions Cells are stored at -150 °C in 196 °C liquid nitrogen. Cells should be stored in the liquid phase of the liquid nitrogen.

Colo-320HSR is a human colorectal cancer cell line.

Sterility

Colo-320HSR cells are tested for mycoplasma contamination using PCR. Cells are found to be free of mycoplasma contamination. Cells are also tested for endotoxin contamination and found to be free of endotoxin contamination.