

Product sheet

Colo-680N | 300464

General Information

Description	COLO-680N is a cell line derived from a 58-year-old male patient with colorectal adenocarcinoma. It is a highly proliferative, anchorage-dependent cell line that grows in the presence of 5% fetal bovine serum (FBS) in DMEM supplemented with 10% FBS. The cell line is characterized by its ability to form colonies in soft agar and its sensitivity to the chemotherapeutic agent 5-fluorouracil (5-FU).
Organism	Human
Tissue	Colon
Disease	Colorectal adenocarcinoma
Applications	Colo-680N is a cell line that is commonly used in research to study the biology of colorectal cancer. It is particularly useful for studying the effects of chemotherapeutic agents, such as 5-FU, and for investigating the mechanisms of drug resistance in colorectal cancer. The cell line is also used in studies of cell growth, cell cycle regulation, and cell death.
Synonyms	COLO 680N, COLO #680N, COLO680N, Colo-680N

Cell Characteristics

Age	57 years
Gender	Male
Ethnicity	White
Morphology	Epithelial cells
Growth properties	Highly proliferative, anchorage-dependent

Identification and Accession

Citation	COLO-680N (ATCC CCL-221) Cytion 300464
Biosafety level	1
NCBI_TaxID	9606
CellosaurusAccession	CVCL_1131

Additional Information

Product sheet

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Protein expression BMP-6

XXXXXX

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

Supplements XXXX XXXXXXXX 10% FBS

Dissociation Reagent XXXXXXXX

Doubling time 60 XXXX

Subculturing XXX XXX XXXXXXX XXXX XXXXXXX XXXXXXX XXXXXXX XXXX X-PBS XXX XXXX XXXXXXX. XXXX XXXXXXX T25, XXXXXXX X-3-5 X' X-PBS, XXXXXXX XXXX 3 XXXX. XXXX XXX XXXXXXX XXXXXXX, XXXX XXX XXXXXXX XXXXXXX XXX XXXXXXX XXXX XXXXXXX XXXXXXX XXXXXXX XXXXXXX XXXXXXX XXXX.

Seeding density 2×10^4 ^{1/5} XXXXXXX XXXXXXX XXXX X-4 X-5 XXXX

Fluid renewal 2 X-3 XXXXXXX XXXXXXX

Post-Thaw Recovery XXXX XXXX ^{1/5} XXXXXXX XXXXXXX XXXXXXX XXXXXXX XXXXXXX XXXX 24 XXXX XXXXXXX

Freeze medium XXXXXXX XXXXXXX XXXXXXX, XXX XXXXXXX XXXXXXX XXXXXXX XXXX (XXXXX FBS) + 10% DMSO XXX XXXXXXX XXXXXXX XXXXXXX XXXXXXX XXXXXXX, XXX C

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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 medium. Incubate at 37°C in a humidified atmosphere of 5% CO₂.
3. After 24 hours, check the cells for attachment. If the cells do not attach, repeat the seeding process.
4. Once the cells are attached, change the medium to fresh pre-warmed medium. Remove 70% of the medium.
5. Seed the cells into a pre-warmed medium. Incubate at 37°C in a humidified atmosphere of 5% CO₂.
6. After 24 hours, check the cells for attachment. If the cells do not attach, repeat the seeding process.
7. Once the cells are attached, change the medium to fresh pre-warmed medium. Remove 10% of the medium.
8. After 24 hours, check the cells for attachment. If the cells do not attach, repeat the seeding process.

Incubation Atmosphere 37°C, 5% CO₂, humidified

Flask Coating None

Freezing Procedure Seed cells into a pre-warmed medium. Incubate at 37°C in a humidified atmosphere of 5% CO₂.

Shipping Conditions Store at -80°C in a humidified atmosphere of 5% CO₂.

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

Genotype / HLA

Sterility The cells are free of mycoplasmas and PCR detectable. The cells are free of endotoxins.

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██████ HLA

A*: '02:01:01, '30:02:01

B*: 15:16:01, 57:01:01

C*: 06:02:01, 14:02:01

DRB1*: 07:01:01, 11:01:02

DQA1*: '01:01:02, '02:01:01

DQB1*: '03:03:02, '05:01:01

DPB1*: '01:01:02, '04:01:01

E: 01:01:01