

Product sheet

SCC-9 | 305390

SCC-9

Description SCC-9 is a cell line derived from a patient with oral squamous cell carcinoma (OSCC). It is a highly proliferative, anchorage-dependent cell line that grows in suspension. SCC-9 cells are characterized by their ability to form colonies in soft agar, a property that is indicative of malignant cells. The cell line is maintained in DMEM supplemented with 10% fetal bovine serum (FBS) and 1% penicillin-streptomycin. SCC-9 cells are a valuable tool for studying the biology of OSCC and for testing potential therapeutic agents.

Organism Human

Tissue Oral squamous cell carcinoma

Disease Oral squamous cell carcinoma

Synonyms SCC 9, SCC9, SFCI-SCC-09

Characteristics

Age 25 years

Gender Male

Ethnicity Caucasian

Growth properties Adherent

References

Citation SCC-9 (ATCC CCL-221) | Cytion 305390

Biosafety level 1

NCBI_TaxID 9606

CellosaurusAccession CVCL_1685

Additional information

SCC-9 | 305390

Protein expression
 DMEM:Ham's F12 (1:1), w: 3.1 g/L β -mercaptoethanol, w: 2.5 mM L-glutamine (100x)

Media

Culture Medium
 DMEM:Ham's F12 (1:1), w: 3.1 g/L β -mercaptoethanol, w: 2.5 mM L-glutamine, w: 15 mM HEPES, w: 0.5 mM β -mercaptoethanol, w: 1.2 g/L NaHCO₃ 820400a)

Supplements
 β -mercaptoethanol 10% FBS

Dissociation Reagent
 Trypsin

Subculturing
 Cells are cultured in DMEM:Ham's F12 (1:1) supplemented with 10% FBS. For subculturing, cells are trypsinized with 0.25% trypsin-EDTA, washed with PBS, and resuspended in DMEM:Ham's F12 (1:1) supplemented with 10% FBS.

Freeze medium
 DMEM:Ham's F12 (1:1), w: 3.1 g/L β -mercaptoethanol, w: 2.5 mM L-glutamine (100x FBS) + 10% DMSO

Thawing and Culturing Cells

1. Thaw cells rapidly in a 37°C water bath, and transfer to a pre-warmed medium.
2. Centrifuge cells at 300 x g for 3 minutes, wash cells with PBS, and resuspend in DMEM:Ham's F12 (1:1) supplemented with 10% FBS.
3. Seed cells into a 25 cm² flask with 37 mL of DMEM:Ham's F12 (1:1) supplemented with 10% FBS.
4. Allow cells to attach for 24 hours, then replace the medium with DMEM:Ham's F12 (1:1) supplemented with 10% FBS.
5. After 24 hours, replace the medium with DMEM:Ham's F12 (1:1) supplemented with 10% FBS.
6. Harvest cells by centrifugation at 300 x g for 3 minutes, wash cells with PBS, and resuspend in DMEM:Ham's F12 (1:1) supplemented with 10% FBS.
7. Seed cells into a 10 cm² flask with 10 mL of DMEM:Ham's F12 (1:1) supplemented with 10% FBS.
8. Allow cells to attach for 24 hours, then replace the medium with DMEM:Ham's F12 (1:1) supplemented with 10% FBS.

Incubation Atmosphere
 37°C, 5% CO₂, humidified

Flask Coating
 None

Product sheet

SCC-9 | 305390

Freezing Procedure [redacted] -78°C

Shipping Conditions [redacted] -78°C

Storage Conditions [redacted] -150 to 196

[redacted] / [redacted] / HLA

Sterility [redacted]
[redacted]