UPCI:SCC090 (ATCC® CRL-3239™)

Intended Use
This product is intended for research use only. It is not intended for any animal or human therapeutic or diagnostic use.

Complete Growth Medium
The base medium for this cell line is ATCC-formulated Eagle's Minimum Essential Medium, Catalog No. 30-2003. To make the complete growth medium, add the following components to the base medium:
- additional 2mM L-Glutamine
- fetal bovine serum (FBS) to a final concentration of 10%

Citation of Strain
If use of this culture results in a scientific publication, it should be cited in that manuscript in the following manner: UPCI:SCC090 (ATCC® CRL-3239™)

SAFETY PRECAUTION
ATCC highly recommends that protective gloves and clothing always be used and a full face mask always be worn when handling frozen vials. It is important to note that some vials leak when submersed in liquid nitrogen and will slowly fill with liquid nitrogen. Upon thawing, the conversion of the liquid nitrogen back to its gas phase may result in the vessel exploding or blowing off its cap with dangerous force creating flying debris.

Unpacking & Storage Instructions
1. Check all containers for leakage or breakage.
2. Remove the frozen cells from the dry ice packaging and immediately place the cells at a temperature below -130°C, preferably in liquid nitrogen vapor, until ready for use.

Subculturing Procedure
Volumes used in this protocol are for 75 cm² flasks; proportionally reduce or increase amount of dissociation medium for culture vessels of other sizes.
1. Remove and discard culture medium. Briefly rinse the cell layer with Ca++/Mg++ free Dulbecco's phosphate-buffered saline (D-PBS) (ATCC® No. 30-2200) or 0.25% Trypsin – 0.53mM EDTA (ATCC® No. 30-2101) solution to remove all traces of serum which contains trypsin inhibitor.
2. Add 2.0 to 3.0 ml of Trypsin-EDTA solution to flask and observe cells under an inverted microscope until cell layer is dispersed (usually within 5 to 15 minutes).

Note: To avoid clumping do not agitate the cells by hitting or shaking the flask while waiting for the cells to detach. Cells that are difficult to detach may be placed at 37°C to facilitate dispersal.
3. Add 6.0 to 8.0 ml of complete growth medium and aspirate cells by gently pipetting.
4. Add appropriate aliquots of the cell suspension to new culture vessels. Incubate cultures at 37°C.

Subcultivation Ratio: 1:2 to 1:4 is recommended.
Medium Renewal: 2 to 3 times a week

Cryopreservation Medium
Complete growth medium, 90%; DMSO, 10%

Comments
UPCI:SCC090 is from a squamous cell carcinoma of the base of the tongue. These cells are positive for Human Papilloma Virus (HPV). They have no TP53 mutations as assayed by sequencing the 5-8 exons of TP53. UPCI:SCC090 showed no amplification of chromosomal band 11q13 using FISH.
The patient had a recurrence about 1 year later sited at the hypopharynx. It is ATCC® No. CRL-3240 UPCI:SCC152™.

These 2 HNSCC (head and neck squamous cell carcinoma) cell lines are a resource for studying the initiation, cancerization, prognosis, intervention and treatment of oral cancers.

References

References and other information relating to this product are available online at www.atcc.org.

 Biosafety Level: 2

Appropriate safety procedures should always be used with this material. Laboratory safety is discussed in the current publication of the Biosafety in Microbiological and Biomedical Laboratories from the U.S. Department of Health and Human Services Centers for Disease Control and Prevention and National Institutes for Health.

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Additional information on this culture is available on the ATCC web site at www.atcc.org.

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