

Product sheet

TC-1 | 305388

TC-1

Description
TC-1 is a cell line derived from a patient with a high-grade squamous intraepithelial lesion (HSIL). It is characterized by the presence of HPV16 (HPV16), LTR, and the presence of the E6 and E7 genes. The cell line is immortalized by the expression of the SV40 large T antigen (LT) and the SV40 small t antigen (St). The cell line is maintained in DMEM supplemented with 10% FBS and 100 U/ml penicillin, 100 U/ml streptomycin, and 100 U/ml nystatin. The cell line is characterized by the presence of the E6 and E7 genes, which are known to be oncogenic. The cell line is also characterized by the presence of the H-ras (G12V) mutation. The cell line is used for research in the field of HPV and cancer.

Organism Human

Characteristics

Gender Male

Ethnicity Caucasian

Morphology Epithelial

Cell type Epithelial

Growth properties Adherent

References

Citation TC-1 (Cytion 305388)

Biosafety level 1

NCBI_TaxID 10090

CellosaurusAccession CVCL_4699

GMO Status GMO-S1: TC-1 (Cytion 305388) is a cell line derived from a patient with a high-grade squamous intraepithelial lesion (HSIL) and is characterized by the presence of HPV16 E6/E7 genes.

Additional information

Notes

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Culture Medium DMEM, w: 4.5 g/L $\text{CaCl}_2 \cdot 2\text{H}_2\text{O}$, w: 4 mM L- Asn , w: 3.7 g/L NaHCO_3 , w: 1.0 mM β - ME (Cytion 820300a)

Supplements 10% FBS

Dissociation Reagent

Doubling time 18.

Freeze medium (FBS) + 10% DMSO

Thawing and Culturing Cells

1. Thaw cells rapidly in a water bath at 37°C. Transfer the cells to a pre-warmed medium.
2. Centrifuge the cells at 300 x g for 3 minutes. Resuspend the cells in fresh medium.
3. Seed the cells into a T25 flask containing 37 mL of medium.
4. Incubate the cells in a humidified incubator at 37°C with 5% CO_2 .
5. Monitor cell growth and confluency. Harvest cells when they reach 70-80% confluency.
6. Seed cells into a T75 flask containing 150 mL of medium.
7. Harvest cells from a T75 flask when they reach 80-90% confluency.
8. Harvest cells from a T175 flask when they reach 80-90% confluency.

Incubation Atmosphere 37°C, 5% CO_2

Flask Coating

Freezing Procedure

Shipping Conditions

