**Product Sheet** 

# hTERT-HPNE E6/E7/K-RasG12D/st

CRL-4039<sup>™</sup>

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## Description

Organism: Homo sapiens, human Tissue: Pancreas; Duct Age: 52 years Gender: Male Morphology: epithelial-like Growth properties: Adherent

# **Storage Conditions**

Product format: Frozen Storage conditions: Vapor phase of liquid nitrogen

# Intended Use

This product is intended for laboratory research use only. It is not intended for any animal or human therapeutic use, any human or animal consumption, or any diagnostic use.

# BSL 2

ATCC determines the biosafety level of a material based on our risk assessment as guided by the current edition of *Biosafety in Microbiological and Biomedical Laboratories (BMBL)*, U.S. Department of Health and Human Services. It is your responsibility to understand the hazards associated with the material per your organization's policies and procedures as well as any other applicable regulations as enforced by your local



or national agencies.

Cells contain Human papillomavirus type 16 (HPV-16) sequences

ATCC highly recommends that appropriate personal protective equipment is always used when handling vials. For cultures that require storage in liquid nitrogen, it is important to note that some vials may 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 vial exploding or blowing off its cap with dangerous force creating flying debris. Unless necessary, ATCC recommends that these cultures be stored in the vapor phase of liquid nitrogen rather than submersed in liquid nitrogen.

## **Certificate of Analysis**

For batch-specific test results, refer to the applicable certificate of analysis that can be found at www.atcc.org.

## **Growth Conditions**

Temperature: 37°C Atmosphere: 95% Air, 5% CO<sub>2</sub>

## Handling Procedures

#### **Unpacking and 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



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ready for use.

Complete medium: The base medium for this cell line is:

- 75% DMEM without glucose (Sigma Cat#. D-5030 with additional 2 mM Lglutamine and 1.5 g/L sodium bicarbonate)
- 25% Medium M3 Base (Incell Corp. Cat# M300F- 500)

To make the complete growth medium, add the following components to the base medium:

- fetal bovine serum 5% (final conc.)
- 10 ng/ml human recombinant EGF
- 5.5 mM D-glucose (1g/L)
- 750 ng/ml puromycin

#### Handling Procedure:

#### **Recovery of Frozen Cells**

To ensure the highest level of viability, thaw the vial and initiate the culture as soon as possible upon receipt. If storage of the frozen culture is necessary upon arrival, store the vial in liquid nitrogen vapor and **NOT** at -70°C. Storage at -70°C will result in loss of viability.

#### SAFETY PRECAUTION: Always use protective gloves and clothing and wear a full face

**mask when handling frozen vials.** Some vials leak when immersed 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.

1. Prepare a 25-cm<sup>2</sup> or a 75-cm<sup>2</sup> culture flask containing the recommended complete culture medium. Prior to the addition of the vial contents, the vessel containing the growth medium should be placed in the incubator for at least 15 minutes to allow the medium to reach its normal pH (7.0 to 7.6) and to avoid excessive alkalinity of the medium during recovery of the cells.

2. Thaw the vial by gentle agitation in a 37°C water bath. To reduce the possibility of contamination, keep the O-ring and cap out of the water. Thawing should be rapid (approximately 2 minutes).

3. Remove the vial from the water bath as soon as the contents are thawed, and decontaminate by dipping in or spraying with 70% ethanol. All operations from this point on should be carried out under strict aseptic conditions.

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4. Transfer the vial contents to a centrifuge tube containing 9.0 ml of complete culture medium and centrifuge the cell suspension at approximately 125 x g for 5 to 7 minutes.

5. Discard the supernatant and resuspend the cells in fresh growth medium (see the batch-specific information for the recommended dilution ratio). Add this suspension to the prepared culture vessel.

6. Incubate the culture at 37°C in a suitable incubator.

7. A 5%  $CO_2/95\%$  air atmosphere is recommended if using the medium described on this product sheet.

#### Subculturing procedure:

**Protocol:** Volumes used in this protocol are for 75 cm<sup>2</sup> 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) or 0.25% (w/v) Trypsin - 0.53 mM EDTA solution to remove all traces of serum which contains trypsin inhibitor.
- 3. 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 37.0°C to facilitate dispersal.

- 4. Add 2.0 to 3.0 mL of complete growth medium and aspirate cells by gently pipetting.
- 5. Transfer cell suspension to a centrifuge tube and spin at approximately 125 X g for 5 to 10 minutes. Discard supernatant.
- 6. Resuspend the cell pellet in fresh growth medium. Add appropriate aliquots of the cell suspension to new culture vessels. An inoculum of 4 X  $10^3$  to 6 X  $10^3$  viable cells/cm<sup>2</sup> is recommended.
- 7. Incubate cultures at 37.0°C. Subculture when cell density reaches between 5 X  $10^4$  and 6 X  $10^4$  cells/cm^2.

Subcultivation ratio: 1:8 to 1:12 twice weekly

Medium renewal: every 2 to 3 days

Reagents for cryopreservation: Fetal bovine serum supplemented with 10% (v/v)

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DMSO (ATCC 4-X)

### **Material Citation**

If use of this material results in a scientific publication, please cite the material in the following manner: hTERT-HPNE E6/E7/K-RasG12D/st (ATCC CRL-4039)

#### References

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

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#### Revision

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# **Contact Information**

ATCC 10801 University Boulevard Manassas, VA 20110-2209 USA US telephone: 800-638-6597 Worldwide telephone: +1-703-365-2700 Email: tech@atcc.org or contact your local distributor

