




Product Sheet


# HCM-CSHL-0061-C18 (ATCC® PDM-5™)

Please read this FIRST



Storage Temp.  
**liquid nitrogen  
vapor phase**

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Biosafety Level  
**1**

## 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

To prepare the complete medium for this organoid please refer to the [Organoid Media Formulation #1](#).

## Citation of Strain

If use of this culture results in a scientific publication, it should be cited in that manuscript in the following manner: HCM-CSHL-0061-C18 (ATCC® PDM-5™)

American Type Culture Collection  
PO Box 1549  
Manassas, VA 20108 USA  
[www.atcc.org](http://www.atcc.org)

800.638.6597 or 703.365.2700  
Fax: 703.365.2750  
Email: [Tech@atcc.org](mailto:Tech@atcc.org)

Or contact your local distributor

## Description

**Organism:** *Homo sapiens*, human

**Tissue:** sigmoid colon

**Disease:** primary adenocarcinoma

**Age:** See associated clinical data for patient profile information, if available.

<https://portal.gdc.cancer.gov/>

<https://portal.hcmi.cancercollaboratory.org/>

**Gender:** female

**Morphology:** organoid

**Growth Properties:** embedded 3D culture

## Batch-Specific Information

Refer to the Certificate of Analysis for batch-specific test results.

## 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  $-130^{\circ}\text{C}$ , preferably in liquid nitrogen vapor, until ready for use.

## Handling Procedure for Frozen Cells

**Seeding density:** We recommend seeding this model at  $0.25 - 1 \times 10^6$  viable cells in 100  $\mu\text{L}$  of ECM per well of a 6-well plate.

**ECM:** We recommend culturing this model in ATCC CellMatrix or Corning Matrigel. Include 10  $\mu\text{M}$  ROCK Inhibitor Y-27632 (ATCC ACS-3030) in medium for the first 2-3 days following subculture.

For a brief overview of the thawing procedure see our quickstart guide [Thawing Cryopreserved Human Organoids](#).

## Subculturing Procedure

**Initiating culture from frozen vials:** For a brief overview of the thawing procedure see our quickstart guide [Thawing Cryopreserved Human Organoids](#).

**Seeding density:**  $0.25 - 1 \times 10^6$  viable cells in 100  $\mu\text{L}$  of ECM per well of a 6-well plate. Alternatively, split at 1:2-1:4 every 7-10 days. For example, collect organoids from 100  $\mu\text{L}$  of extracellular matrix (ECM) from a single well of a 6-well plate and re-seed into 2-4 wells of a 6-well plate in 100  $\mu\text{L}$  ECM per well.

**Media renewal:** Perform a complete medium change every 2-3 days. Include 10  $\mu\text{M}$  ROCK Inhibitor Y-27632 (ATCC ACS-3030) in medium for the first 2-3 days following subculture.

For a brief overview of the subculture and expansion of organoids see our quickstart guide [Subculture and Expansion of Human Organoids Protocol](#).

For more details on the handling and culture of organoids see our methods paper in [Current Protocols in Cell Biology](#)

## Cryopreservation Medium

We recommend cryopreserving this model in ATCC Stem Cell Freezing Media (ATCC ACS-6000). For a brief overview of the cryopreservation procedure for organoids see our quickstart guide [Organoid Cryopreservation Protocol](#).

For more details on the handling and culture of organoids see our methods paper in [Current Protocols in Cell Biology](#).

## Comments

Next-generation cancer model from the Human Cancer Models Initiative (HCMI). Refer to the following websites



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for additional information on this model including protocols, clinical information, and bioinformatics data.

<https://ocg.cancer.gov/programs/hcml/resources>

<https://portal.gdc.cancer.gov/>

<https://portal.hcml.cancercollaboratory.org/>



### References

References and other information relating to this product are available online at [www.atcc.org](http://www.atcc.org).



### Biosafety Level: 1

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.

### ATCC Warranty

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### Disclaimers

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Please see the enclosed Material Transfer Agreement (MTA) for further details regarding the use of this product. The MTA is also available on our Web site at [www.atcc.org](http://www.atcc.org)

Additional information on this culture is available on the ATCC web site at [www.atcc.org](http://www.atcc.org).

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