



Applied Biological Materials Inc.

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Immortalized Human Oral Gingival Keratinocytes (HPV-16 GM)

Cat.No.

T0717

Unit

1x10⁶ cells / 1.0 ml

Cat. No.

T0717

Name

Immortalized Human Oral Gingival Keratinocytes (HPV-16 GM)

Description

Immortalized Human Oral Gingival Keratinocytes (HPV-16 GM) are derived from a healthy donor and were immortalized using HPV16 E6/E7 genes. Immortalized Human Oral Gingival Keratinocytes (HPV-16 GM) express the following typical epithelial marker genes: cytokeratin 1, cytokeratin 10, involucrin, and filaggrin. Characterization by indirect immunofluorescence, RT PCR, and transplantation assay.

Note: Cells may require up to 48 hours to fully attach after thawing or subculturing. Replace the culture medium approximately 24 hours post-seeding to support optimal attachment and recovery.

Organism

Human (H. sapiens)

Tissue

Mouth/Oral

Donor History

Healthy donor

Growth Properties

Adherent, cobblestone

Cell Type

Immortalized Cells

Unit

1x10⁶ cells / 1.0 ml

Storage Condition

Vapor phase of liquid nitrogen, or below -130°C.

Product Format

Frozen

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.

BioSafety

II

Certificate of Analysis

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

Growth Conditions

For optimal cell culture, we recommend using PriCoat™ T25 Flasks (G299) or coating your preferred vessels with Applied Cell Extracellular Matrix (G422). Keratinocyte Growth Medium Kit (Low Ca²⁺) (TM203) + 1% Penicillin/Streptomycin Solution (G255), 37.0°C, 5% CO₂.

Unpacking and Storage Instructions	1. Visually examine the packaging containers for signs of leakage or breakage. 2. Immediately transfer frozen cells from dry ice packaging to a temperature below -130°C, preferably in liquid nitrogen vapor phase storage, until ready for use. To ensure the highest level of viability, thaw the vial and initiate culture as soon as possible upon receipt. If continued storage is desired, the vial should only be stored below -130°C or in liquid nitrogen vapor phase. Do not store at -70°C, as it will result in loss of viability.
Thawing Protocol	1. Thaw cells quickly in a 37°C water bath while agitating gently (maximum 2 minutes). The vial cap should be kept above the water level to minimize the risk of contamination. 2. Decontaminate the vial by spraying and wiping the exterior of the vial with 70% ethanol. From this point onwards, all operations should be strictly carried out inside a biological safety cabinet using aseptic conditions. 3. Transfer the cell suspension into a 15ml sterile conical tube containing 5ml of pre-warmed, complete growth media. Centrifuge cells at 125xg for 5–7 minutes. 4. Aspirate the supernatant without disturbing the cell pellet. Re-suspend the cell pellet in the recommended pre-warmed, complete growth media and dispense into a T25 culture flask. 5. Incubate the cells at the recommended conditions.
Subculture Protocol	Volumes given below are for a T75 flask; proportionally increase or decrease the volume as required per culture vessel size. Subculture cells once the culture vessel is 80% confluent. 1. Aspirate the culture media, and add 5–7 ml of pre-warmed 0.25% Trypsin-EDTA to the culture vessel. 2. Observe the cells under a microscope to confirm detachment (typically within 2–10 minutes). Cells that are difficult to detach can be put in 37°C, for several minutes to facilitate detachment. 3. Neutralize Trypsin-EDTA by adding an equal volume of Trypsin Neutralizing Solution (TM069) into the culture vessel. 4. Transfer the culture suspension into a sterile centrifuge tube, and centrifuge at 125 x g for 5 minutes. The actual centrifuge duration and speed may vary depending on the cell type. 5. Aspirate the supernatant, and re-suspend the pellet with pre-warmed fresh complete growth media. Add appropriate aliquots of the cell suspension to new culture vessels, as desired. 6. Incubate the cells at the recommended conditions.
Cryopreservation	We recommend using serum-free CryoGuard™ Freezing Media (TM078).
Seeding Density (cells/cm²)	20,000 – 40,000
Split Ratio	1:2 to 1:5
Population Doubling Time (h)	25–35
Immortalization Method	Immortalized with retrovirus containing the E6/E7 genes of HPV16
Expression	Cytokeratin 1, cytokeratin 10, involucrin, and filaggrin

STR Profiling

D5S818 : 12,13
D13S317 : 9,12
D7S820 : 11,11
D16S539 : 9,11
VWA : 16,17
TH01 : 9,9
AMEL : X,X
TPOX : 9,11
CSFIPO : 10,12
D12S391 : 18,18
FGA : 22.2,22.2
D2S1338 : 20,24
D21S11 : 29,31.2
D18S51 : 19,19
D8S1179 : 8,14
D3S1358 : 15,15
D6S1043 : 11,20
PENTAE : 12,16
D19S433 : 12,16
PENTAD : 8,11
DIS1656 : 12,14

Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: Applied Biological Materials Inc, Cat. No. T0717.

Warranty

abm warrants that cell lines shall be viable upon initiation of culture for a period of thirty (30) days after shipment and that they shall meet the specifications on the applicable **abm** Material Product Information sheet, certificate of analysis, and/or catalog description. Such thirty (30) day period is referred to herein as the "Warranty Period".

Disclaimer

1. Sale of this item is subjected to the completion of a Material Transfer Agreement (MTA) by the purchasing individual/institution for each order. If you have any questions regarding this, please contact us at licensing@abmgood.com.
2. All test parameters provided in the CoA are conducted using **abm's** standardized culture system and procedures. The stated values may vary under the end-user's culture conditions. Please verify that the product is suitable for your studies by referencing published papers or ordering RNA (0.5 µg, Cat.# C207, \$450.00) or cell lysate (100 µg, Cat.# C206, \$600.00) to perform preliminary experiments, or alternatively use our Gene Expression Assay Service (Cat# C138). All sales are final.
3. We recommend live cell shipments for ease of cell transfer and this option can be requested at the time of ordering. Please note that the end-user will need to evaluate the feasibility of live cell shipment by taking into account the final destination's temperature variation and its geographical location. In addition, we thoroughly test our cell lines for freeze-thaw recovery. If frozen cells were received and not recovered in your lab under the exact, specified conditions (using recommended culture vessel, media, additional supplements, and atmospheric conditions), a live cell replacement is possible at a cost (plus shipping).

4. All of **abm**'s cell biology products are for research use ONLY and NOT for therapeutic/diagnostic applications. **abm** is not liable for any repercussions arising from the use of its cell biology product(s) in therapeutic/diagnostic application(s). Please contact a technical service representative for more information.
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6. **abm** warrants that cell lines shall be viable upon initiation of culture for a period of thirty (30) days after shipment and that they shall meet the specifications on the applicable **abm** Material Product Information sheet, certificate of analysis, and/or catalog description. Such thirty (30) day period is referred to herein as the "Warranty Period."

Depositor University of Freiburg

QC 1) Indirect immunofluorescence; 2) RT PCR; 3) Transplantation assay

Application Research Use Only.

Caution: *This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information (1-866-757-2414).*