# Lidské melanocyty, dospělé

300694

## OBECNÉ INFORMACE

### Popis

Human Melanocytes, adult are primary pigment-producing melanocytes isolated from adult human skin (epidermis). They are used to study melanogenesis, pigmentation disorders, UV/photobiology, and melanoma biology.

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| **Tkáň** | Skin (epidermis) |
| **Nemoc** | Normal |

### Aplikace

Melanogenesis and pigmentation research; UV/photobiology; melanoma-related studies

## KLASIFIKACE

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| **Organismus** | Člověk |
| **Růstové vlastnosti** | Přívrženec |
| **Úroveň biologické bezpečnosti** | 1 |

## CHARAKTERISTIKA

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| **Morfologie** | Dendritic / bipolar |
| **Typ buňky** | Melanocyte |
| **Doba zdvojnásobení** | Approximately 48-72 hours |

## IDENTIFIKÁTORY

### Citace

Human Melanocytes, adult (Cytion catalog number 300694)

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| **Daňové identifikační číslo NCBI** | 9606 |

## MANIPULACE A CHOV

### Pěstovací médium

Melanocyte Growth Medium

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| **Inkubační atmosféra** | 37°C, 5% $CO_2$, humidified atmosphere. |

### Doplňky stravy

Melanocyte growth supplements (e.g., bovine pituitary extract, growth factors); serum as per medium

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| **Disociační činidlo** | Trypsin-EDTA or Accutase |

### Subkultivace

At 70-80% confluence, wash with PBS, detach with Trypsin-EDTA or Accutase, neutralize, centrifuge at 300xg for 3 min, and reseed into fresh medium.

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| **Poměr rozdělení** | 1:2 to 1:3 |
| **Hustota výsevu** | 2.5-5 x 10^3 cells/cm2 |
| **Obnova tekutin** | Every 2-3 days |

**Rozmrazování a kultivace**

Confirm that the vial remains deeply frozen upon delivery, as cells are shipped on dry ice to maintain optimal temperatures during transit.
Upon receipt, either store the cryovial immediately at temperatures below -150°C to ensure the preservation of cellular integrity, or proceed to step 3 if immediate culturing is required.
For immediate culturing, swiftly thaw the vial by immersing it in a 37°C water bath with clean water and an antimicrobial agent, agitating gently for 40-60 seconds until a small ice clump remains.
Perform all subsequent steps under sterile conditions in a flow hood, disinfecting the cryovial with 70% ethanol before opening.
Carefully open the disinfected vial and transfer the cell suspension into a 15 ml centrifuge tube containing 8 ml of room-temperature culture medium, mixing gently.
Centrifuge the mixture at 200 x g for 5 minutes, carefully discard the supernatant containing freezing medium.
Follow the procedure described under Post-Thaw Recovery

## KONTROLA KVALITY A KRYOKONZERVACE

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| **Mrazicí médium** | As a cryopreservation medium, we use complete growth medium + 10% DMSO for adequate post-thaw viability. |

**Podmínky skladování**

For long-term preservation, place vials in vapor-phase liquid nitrogen at about −150 to −196 °C. Storage at −80 °C is acceptable only as a short interim step before transfer to liquid nitrogen.

**Dopravní podmínky**

Cryopreserved cell lines are shipped on dry ice in validated, insulated packaging with sufficient refrigerant to maintain approximately −78 °C throughout transit. On receipt, inspect the container immediately and transfer vials without delay to appropriate storage.

## PRÁVNÍ INFORMACE A BEZPEČNOSTNÍ POKYNY

**Bezpečnostní opatření**

When planning to store a cryovial in liquid nitrogen for future thawing, it is mandatory to adhere to stringent safety measures. Appropriate protective gloves and clothing are essential, and the use of a face mask or safety goggles is required during the transfer of frozen samples to or from the liquid nitrogen tank. This is to mitigate the risk of injury from potential cryovial explosions upon removal, which can result in the projection of sharp fragments.

**Záruka**

At Cytion, we stand behind the quality and viability of our products.
We guarantee that our cells will be viable at the start of culture for
60 days after shipment from our facilities.
We assure that all materials conform to the specifications described in the
Certificate of Analysis and/or Product Sheet.
For full details, please refer to our
Warranty Statement.

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| **Je nutná smlouva o převodu materiálu** | Yes |

## PODROBNOSTI O PRODUKTU

**Tabulka složení**