Product description

Eumelanotic cell line derived from a lymph node metastasis of a female with nodular melanoma. This line displays a proliferative, melanocyte-like phenotype and is sensitive to tyrosine kinase inhibitors, Dasatinib and Sunitinib.

Name: MM001-HBL cell line

Alternate name: HBL cell line

Disease: Cancer

Cancer type: Skin cancer

Cancer detailed: Nodular melanoma

Organism: Human

Gender: Female

Tissue: Lymph node metastasis

Tumorigenic: Yes

Growth properties: Adherent

CRISPR Edited: No

Model description: This cell line displays a proliferative, melanocyte-like phenotype

Biosafety Level: BSL-2

Contributor(s)

Inventor(s): Ghanem Elias, Ahmad Najem
Institute: Université libre de Bruxelles

Properties

Product format: Frozen

Unpacking and storage:

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 ready for use.

Recommended medium: Ham's F10 supplemented with 10% of foetal calf serum (FCS), with L-glutamine (1mM), penicillin (100 IU/ml), and streptomycin (100 µg/ml).

Subculture: Split sub-confluent cultures (70-80%) 1:3 to 1:8, using 0.05-0.25% trypsin in 0.02% EDTA, 5% CO_2, 37°C.

Culture conditions: 37.0°C ± 1.0°C incubator, 5.0% ± 1.0% CO_2

Handling instructions

1. Please ensure that vials are frozen when received, and store at **<-130 °C long term**. When removing frozen cells from storage, it is important to minimize exposure to room temperature (15 - 25°C). If not proceeding directly to thawing, place the cells on dry ice or in a liquid nitrogen container.
2. **Do not thaw at room temperature.** To thaw, swirl the vial quickly in a 37 °C water bath with O-ring and cap above the water to avoid contamination. Remove from the water bath with a small ice pellet remaining (this should not take more than 2 minutes) and wipe the exterior with 70% ethanol or isopropanol before transferring to a biosafety cabinet. Further steps should be conducted under aseptic conditions.
3. We strongly recommend that the volume of cell suspension is measured at this point, and a 20 uL aliquot be removed for a **viable cell count** using trypan blue or similar dye. This ensures that provided cells are viable, and the cell count can be used to determine volume of growth medium to be added to the cell suspension.
4. Transfer the remaining cell suspension to a centrifuge tube using a pipette.
5. Rinse the vial with 1 mL of medium and add it dropwise to the cells.
6. Wash by adding 15 - 20 mL of medium **dropwise**, while gently swirling the tube.
7. Centrifuge the cell suspension at **1200 rpm for 5 minutes** at room temperature.
8. Carefully remove the supernatant with a pipette, leaving a small amount of medium to ensure the cell pellet is not disturbed. Resuspend the cell pellet by gently flicking the tube.
9. Gently add required volume of culture medium and transfer to a suitable cell culture flask

References

- Eves et al. 2003. Br J Cancer 89. PMID: 14612916
- Sabbah et al. 2021. Mol Cancer Res. 19(7):1221-1233. PMID: 33741716
- Krayem et al. 2014. Eur J Cancer. 50(7):1310-20. PMID: 24559688
- Krayem et al. 2018. Oncotarget. 9(61):31888-31903. PMID: 30159130
- Soumoy et al. 2020. Cancers (Basel). 12(5):1323. PMID: 32455924
- Porcelli et al. 2015. J Transl Med. 13:26. PMID: 25623468
- Wouterset al. 2020. Nat Cell Biol. 22(8):986-998. PMID: 32753671
- Verfaillie et al. 2015. Nat Commun 6, 6683. PMID: 25865119
- Aftimos et al. 2013. Int J Oncol. 43(3):919-26. PMID: 23835698
- Zannat et al. 2013. J Biol Regul Homeost Agents. 27(1):131-41. PMID: 23489693
- Mauduit et al. 2021. eLife 10:e71735. PMID: 34874265
- Huang et al. 2021. J Clin Invest. 131(8):e140752. PMID: 33690225

Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: MM001-HBL cell line, was invented by Ghanem Elias and Ahmad Najem (CancerTools.org #161602).