

# Cellovations<sup>®</sup> Melanocyte Differentiation Medium

## Melanocyte Differentiation Medium ready to use

- optimized conditions for differentiation of human Melanocytes

### Product Description:

Cellovations<sup>®</sup> Melanocyte Differentiation Medium ready to use, is a fully supplemented, frozen, and ready to use culture medium. It does not contain antibiotics / antimycotics, and is free of PMA and TPA. Beside some growth factors and other supplements, the medium contains amino acids, minerals, vitamins and organic compounds. The medium composition now allows to freeze the medium for longtime storage. Cells must be grown to near confluence first in Melanocyte Growth Medium ready to use, then switched to Melanocyte Differentiation Medium ready to use to induce differentiation (5 days) and increased expression of melanin. After differentiation we recommend to switch to the homeostasis medium. This medium is designed for maintenance of melanocytes in a homeostatic state with only minimal growth factor stimuli, sufficient to maintain their function for up to a week in culture.

The medium is for research use only and not approved for human or animal use or for application in any in vitro diagnostic procedure.

**Please note:** To test for whitening of melanocytes, the following procedure is proposed:

- 1) Grow cells to near confluence in the growth medium
- 2) Switch cells to differentiation medium, and allow to differentiate for 5 days
- 3) After that switch to the homeostasis medium one day prior to starting the assay

### Storage of the medium

Please note that the medium has to be stored at -20°C up to -15°C in the dark.

If the medium is once thawed, please store it at 4°C in the dark.

### Preparing and Stability:

To prepare medium for use, it is preferable to thaw overnight at 4°C. Alternatively, medium may be thawed at room temperature for approx 5-6 hours. If thawing at room temperature, ensure contents do not rise above 15°C at the end of the thawing process. Do not thaw in a hot water bath. Once thawed, medium has a remaining shelf-life of 6-weeks when stored at 4°C in the dark. Certain culture media components are very sensitive to light. Minimize light exposure at all times.

Please be careful not to touch the tubes or bottle interior threads with your fingers. Please avoid long term exposure to light because some components are light sensitive. Also do not warm up the medium over 37°C. All this protects your medium against contamination or degradation of essential components.

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### Product Information

- Catalogue number: PB-DH-300-1109-rtu
- Components: 250 ml Medium including Supplements  
optional: 50.00 ng / ml Amphotericin B; 50.00 µg / ml Gentamicin

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