



# Mesenchymal Stem Cell Culture Medium

## Instructions

TNCbio's  
Cell Culture  
Media

# Optimized growth conditions for primary Cells



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Primary cell culture has become one of major techniques in modern life science and biomedical research. It is the general term used for the removal of cells into an artificial environment for survival and proliferation.

Beside the nutrition there are several basic environmental requirements for cells to grow optimally, e.g. controlled temperature, substrate for cell attachment, appropriate growth stimulating compounds and incubator that maintains correct pH and osmolality. Therefore the most important and crucial step for an optimal cell culture is the selection of an appropriate growth medium for the in vitro cultivation.

A cell culture media normally comprise an appropriate source of energy and compounds which regulate the cell cycle. TNCbio's culture media are composed of a complement of a complement of amino acids, vitamins, inorganic salts, trace elements, hormones, glucose, sometimes with a low amount of serum and a set of supplements necessary for proliferation. In addition to these nutrients and components, the medium also helps to maintain pH and osmolality.



**Product description**

TNCbio's Mesenchymal Stem Cell Medium is a complete medium formulated for optimal growth of mesenchymal stem cells. It contains essential and non-essential amino acids, vitamins, organic and inorganic compounds, hormones, growth factors, trace minerals with the mixture of supplements. The medium is for research use only and not approved for human or animal use or for application in any in vitro diagnostic procedure.

**Storage of the medium and supplements**

Please note that the basal medium has to be stored at 4°C up to 8°C but never should be frozen. The supplement has to be stored at -20°C. Protect from light for a longer time period.

**Preparing and stability**

Please thaw the supplements at 37°C before adding to the basal medium. After thawing please rinse the outside of the bottle and the supplement vials and tubes with 70% ethanol as protection. Remove ethanol excess before opening the caps. After adding the supplements or mixture of supplements to the basal medium slew carefully to get a homogenous medium.

Please be careful not to touch the tube 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.

**Optional**

50.00 ng / ml Amphotericin B; 50.00 µg / ml Gentamicin

MSDS are available on request!

**FOR TECHNICAL QUESTIONS OR SUPPORT PLEASE CONTACT  
YOUR LOCAL DISTRIBUTOR OR [TECH@TNCBIO.COM](mailto:TECH@TNCBIO.COM)**